PROFESSIONAL VIDEO TECHNOLOGY

www.eneo-security.com

eneo®

VIDEOR TECHN

Videor Technical E. Hartig GmbH – Partnership, Service, Experience

Founded as a 2-man company in 1975, Videor Technical with its staff of 135 is now one of the leading distributors of professional Video Technology in Europe. The wide product range incorporates components and complete solutions from the Video Security, Video Networking and Video Professional sectors. For more than 30 years Videor Technical has symbolised competence, reliability and dedication, a combination that makes the unusual possible – even in unusual situations.

For us, distribution means considerably more than the mere procurement, storage and dispatch of products. Rather, the increasing complexity of products and the constantly changing market call for a partner who can do more for you.

ICAL

Competent product marketing:
We offer you the right products at the right time – because not every technical advance has been fully thought out. Our Product Marketing Department therefore tracks down only the real innovations for you and recommends only proven products for a market launch.

Wide selection:
We offer you probably the widest product range in the industry – and at fair prices. And success attracts success: which is why you also will find the leading manufacturers and brands with us.

Simple ordering, fast delivery:
We accept your order by any method you choose – whether you opt for fax, telephone, email or our website. Our high stock level ensures optimal availability, which allows orders received before noon to be shipped out on the same day.

Tested quality:
Quality is more important than ever before in the producer goods market. We are not only certified compliant with DIN ISO 9001:2000, our high product quality is also guaranteed – by tests, inspections and supplier audits.

Technical consultation & support:
Our technical specialists can answer all your questions before you opt for a product. Of course, you may also arrange for a personal meeting with your Area Manager. Difficulties with installation of your purchased product? Our Technical Support Team will be happy to assist you. And our own Service Team is ready to provide you with maintenance and repair support. Whether it is before or after your purchase – we won't leave you on your own.

Extensive service:
As a Videor Technical customer, you are always optimally provided with up to date information. In addition to our VIEW customer magazine, prospects and catalogues, you are able to keep your knowledge at the state of the art with our training courses and product presentations. Furthermore, in the Partner Area of our database-supported website, you can find information updated every day, track your orders, download images and even create your own datasheets and price lists showing your logo and company information – without any reference to Videor Technical at all. Who else offers you this service?

Highlights

Page 17

WDR camera with new design for 24h surveillance

The eneo VKC-1350 strengthens the team of our WDR cameras with its light sensitivity of 0.0013Lux/F1.2 (DSS/B&W) and horizontal resolution of 480 TV lines (colour).

Page 29

Network solutions

Wherever you see NT in this catalogue you will find a complete range of high-quality IP products – all bundled with the free management software “eneo NT Manager”.

Page 37

Nothing is more practical

The new plug & play versions of the successful Fastrax series offer outer housings with a transparent dome, heater, fan and sunshield along with, of course, the high speed dome itself.

Page 70

The success story continues

The new eneo VPT pan/tilt head ties in with a successful production tradition: more than 50,000 VPT systems are currently in operation around the world, reliably carrying out their work even in adverse weather conditions.

Page 72

New generation

The new generation of eneo infrared illuminators is now available: the exclusive LED300 series.

Page 85

eneo DLR series expanded

The DLR3-8N and DLR3-16N eneo digital recorders with 8 and 16 channels boost the DLR series in addition to the recently announced four-channel DLR1-04N/160 recorder. The duplex digital recorders achieve recording rates of up to 100 fps (PAL).

Page 87

High-end models

Few digital recorders combine so many features as the new eneo DTR series. The high-end models with 9 or 16 channels use MPEG-4 compression and offer maximum recording speeds of 400 fps.

Page 90

New top model

The DPR-2016/500D with 16 loop-through channels is the new top model among eneo digital recorders. Pentaplex operation allows simultaneous real-time display, recording, playback, backup and remote network access without any loss of performance.

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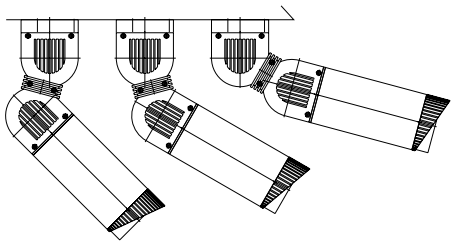
Plug & Play
CANDID Camera Systems

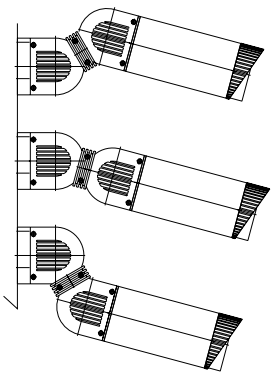
Flexible:
CANDID Junior with folding tube

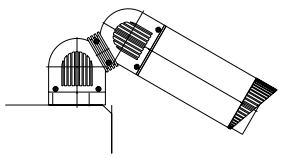
Compact: CANDID Junior
with wall bracket

Functional Design:
CANDID with sunshield

Optical evaluation for all interior areas:
CANDID in the dust-protection version







Time Saved

Our successful CANDID and CANDID Junior series of housings are also available in timesaving Plug & Play versions. For all currently available camera types and voltages. The systems are ready to fit and fully wired. The camera and lens are attached to the mounting plate. the lens flange back length is preset and the interior wiring is fully fitted the wiring harness on the outside through the housing pedestal. The units have been cleanly and professionally finished by our Manufacturing Department. Saving you the hassle of doing it all yourself?

eneo CANDID C-04

1/3“ Colour Camera w. F1.0/3-8mm DC Lens Candid Weatherproof Housing, 480TVL

- Colour Camera in Weatherproof Housing
- Resolution of 480 Horizontal Lines
- Digital Signal Processing (DSP)
- Back Light Compensation (BLC)
- Electronic Shutter Control (ESC)
- Integrated Eclipser Function
- Horizontal and Vertical Aperture correction (APC)
- High Sensitivity
- Lens: F1.0/3-8mm DC Controlled Iris
- Index of Protection: IP66/67

Art-No.: 96004

eneo VKC-1416/VHU-RS

1/4“ D&N Camera with 22x Zoom Lens, Pre-wired in VHU-165, RS-485, 12VDC

- High Resolution Colour/B&W Camera
- Integrated 22x AF Zoom Lens/11x Digital Zoom
- Resolution of 480 Horizontal Lines
- DSP, EDR, DIS, DNR, BLC, Removable IRCF
- HighSpeed and LowSpeed Shutter
- On-screen Menu Control
- RS-485 Fastrax and Pelco P&D Protocols
- Weatherproof Housing with Integrated Ball Head
- Fully Hidden Cable Routing
- For Wall/Ceiling and Upright Mounting
- Pre-wired for 12VDC Voltage Supply
- Certified according to BGV Kassen / IP66-67

Art-No.: 96064

eneo VK-133/W1

1/3“ B&W Camera with 3.8mm lens in VHP-1 Housing with Wall Bracket WD-21, 420TVL

Art-No.: 96005

eneo VK-1317S/W1

1/3“ HiRes B&W Camera with 3.8mm lens VHP-1 Housing, Wallbracket WD-21, 600TVL

Art-No.: 96048

eneo VK-1318/W2

1/3“ HiRes B&W Camera with 4-8mm Lens VHP-2 Housing, 600TVL

Art-No.: 96043

Plug & Play Camera Systems

eneo VKC-144/W1

1/4“ Colour Camera with 3.6mm Lens in VHP-1 Housing, Wallbracket WD-21, 380TVL

Art-No.: 96006

eneo VKC-144/W2

1/4“ Colour Camera with 3.6mm Lens VHP-2 Housing, 380TVL

Art-No.: 96031

eneo VKC-1413/W2

1/4“ Colour Camera with 2.6-5.6mm Lens VHP-2 Housing, 380TVL

Art-No.: 96044

eneo CANDID C-02

1/3“ Colour Camera with F1.0/3-8mm Lens Candid Dustproof Housing, 480TVL

Art-No.: 96002

eneo CANDID C-05

1/3“ D&N Camera, F1.2/4.5-12.5mm DC Lens Candid Weatherproof Housing, 480TVL

Art-No.: 96077

eneo CANDID C-06

1/3“ D&N Camera, F1.3/7.5-50mm DC Lens Candid Weatherproof Housing, 480TVL

Art-No.: 96078

Overview Plug & Play Camera Systems

Art-No.	Type	Sensor	Lens* mm	Lens Control	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage	Protection Rating	Dimensions (HxWxD) mm
96005	VK-133/W1	B/W	F2.0/3.8	-	1/3“	420	0.58	12VDC	IP66/67	55x55x137.5
96048	VK-1317S/W1	B/W	F2.0/3.8	-	1/3“	600	0.76	12VDC	IP66/67	55x55x137.5
96043	VK-1318/W2	B/W	F2.0/4-8	-	1/3“	600	0.75	12VDC	IP67	55x55x204
96006	VKC-144/W1	Colour	F2.0/3.6	-	1/4“	380	0.5	12VDC	IP66/67	55x55x137.5
96031	VKC-144/W2	Colour	F2.0/3.6	-	1/4“	380	0.5	12VDC	IP67	55x55x204
96044	VKC-1413/W2	Colour	F2.0/2.6-5.6	DC	1/4“	380	0.5	12VDC	IP67	55x55x204
96002	CANDID C-02	Colour	F1.0/3-8	-	1/3“	480	1.0	12VDC	IP54	90x90x400
96004	CANDID C-04	Colour	F1.0/3-8	DC	1/3“	480	1.0	12VDC	IP67	101x113x420
96077	CANDID C-05	Colour	F1.2/4.5-12.5	DC	1/3“	480	0.4	12VDC	IP66/67	101x113x420
96078	CANDID C-06	Colour	F1.3/7.5-50	DC	1/3“	480	0.4	12VDC	IP66/67	101x113x420
96064	VKC-1416/VHU-RS	Colour	F1.6/3.8 ~ 83.6	DC	1/4“	480	0.45	12VDC	IP66/67	101x113x420

* Camera packages with other camera/lens combinations: upon request

Accessories

Art-No.	Type	Description
79494	VHU-NT1	Power Supply Unit for Candid Housing Series 230VAC/12VDC-14VAC(Camera/Heater)
79557	VHU-NT2	Power Supply unit for Candid Housing Series 230VAC/2x 24VAC (Camera/Heater)
79591	VHU-NT2/1	Power Transformer for Candid Dustproof Housing, 230V/24VAC

Plug & Play Camera Systems

Plug & Play Camera Systems

1/3“ Day/Night Camera w. IR Illumination
F1.2/3.8-9.5mm, 12VDC/24VAC, 480TVL

- Weatherproof Camera with Swivel Head Bracket
- 1/3“ Day/Night CCD Camera with Varifocal Lens
- Lens F1.2/3.8-9.5mm with DC Iris Control
- Sensitivity: 0.005Lux at F1.2 (DSS ON)
- Resolution of 480 Horizontal Lines
- Removable IR Cut Filter
- Sensitivity Enhancement: 16x max. (DSS Function)
- Switchable Low Speed Shutter (High/Low)
- Back Light Compensation (BLC)/Shutter Control (AES
- IR Illumination by 15 integrated 850nm LED`s
- Supply Voltage: 12VDC/24VAC
- Hidden Cable Routing / Protection Rating: IP67

Art-No.: 96066

eneo VKC-1333IR/W3

eneo VKC-1326/W3

1/3“ Day/Night Camera w. F1.3/3.8-9.5mm Lens, 12VDC, 480TVL

Art-No.: 96058

eneo VKC-1327/W3

1/3“ Day/Night Camera w. F1.3/3.8-9.5mm Lens, 12VDC/24VAC, 480TVL

Art-No.: 96059

eneo VKC-1341IR/W3

1/3“ Colour Camera with F1.5/4-9mm Lens, 12VDC, 330TVL

Art-No.: 96070

Overview Plug & Play Camera Systems

	Art-No.	Type	Day/ Night	Lens mm	CCD-Format	IR-Cut-Filter	Integrated IR Illumination	Low-Speed Shutter	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage
	96070	VKC-1339/W3	-	F1.4/4-9	1/3”	–	–	–	330	0.38	12VDC
n. illustr.	96065	VKC-1324/W3	-	F1.3/3.8-9.5	1/3”	–	–	–	480	0.5	12VDC
	96058	VKC-1326/W3	-	F1.3/3.8-9.5	1/3”	–	–	√	480	0.005*	12VDC
	96059	VKC-1327/W3	√	F1.3/3.8-9.5	1/3“	√	–	–	480	0.5	12VDC/24VAC
n. illustr.	96069	VKC-1334/W3	√	F1.3/3.8-9.5	1/3“	√	-	√	480	0.001*	12VDC
n. illustr.	96060	VKC-1327IR/W3	√	F1.3/3.8-9.5	1/3“	√	√	–	480	0.5	12VDC/24VAC
	96066	VKC-1333IR/W3	√	F1.3/3.8-9.5	1/3“	√	√	√	480	0.005*	12VDC/24VAC

* With Sens-up Function ** A Service Department conversion is necessary for overhead mounting of the Candid Junior W3 Series.

Accessories

Art-No.	Type	Description
88148	W3 INST-KIT1	Installation Kit for W3 Housings: Mount Adapter, Decoration Plate, Screw Set

eneo VKC-1347/CM

1/3“ Colour Camera with Corner Mount Housing, F2.0/3.7mm Lens, 12VDC, 480TVL

Art-No.: 92075

eneo VKC-1348/CM

1/3“ Day&Night Camera with Corner Mount Housing, F1.2/3.8-9.5mm, 12VDC, 480TVL

Art-No.: 92076

eneo VK-1322/SMD

1/3“ B/W Camera with 3.7mm Lens in Smoke Detector Housing, 12VDC, 600TVL

Art-No.: 91988

eneo VKC-1332/SMD

1/3“ Colour Camera with 3.6mm Lens in Smoke Detector Housing, 12VDC, 470TVL

Art-No.: 91987

eneo VK-1321/PIR

1/3“ B/W Camera with 3.7mm Lens and PIR Sensor, 12VDC, 600TVL

Art-No.: 91989

eneo VKC-1338/PIR

1/3“ Colour Camera with 3.7mm Lens and PIR Sensor, 12VDC, 470TVL

Art-No.: 91991

Overview Covert Camera Systems

Art-No.	Type	Sensor	Lens mm	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage	Dimensions (HxWxD) mm
92075	VKC-1347/CM	Colour	F2.0/3.7	1/3”	480	0.35	12VDC	86x86x65
92076	VKC-1348/CM	Colour	F1.2/3.8-9.5	1/3”	480	0.25	12VDC	120x120x95
91988	VK-1322/SMD	B/W	F2.0/3.7	1/3”	600	0.23	12VDC	60x120ø
91987	VKC-1332/SMD	Colour	F2.0/3.6	1/3”	470	0.5	12VDC	57x130ø
91989	VK-1321/PIR	B/W	F2.0/3.7	1/3”	600	0.23	12VDC	120x70x48
91991	VKC-1338/PIR	Colour	F2.0/3.7	1/3”	470	2.0	12VDC	120x70x48

* IR LED: ON

Accessories

Art-No.	Type	Description
70447	VT-PS12DC-5	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, with DC Plug

Security Cameras

eneo VKC-1349/12-24

1/3“ Colour Camera with DSP, AGC, APC BLC, ESC, AWB, 12VDC/ 24VAC, 540TVL

- Resolution of 540 Horizontal Lines
- Automatic Gain Control (AGC)
- High Sensitivity of 0.8Lux (at F1.2)
- Back Light Compensation (BLC)
- Electronic Shutter Control (ESC)
- Automatic AI/DC Control Selection (Depend on Lens)
- Horizontal and Vertical Aperture Correction (APC)
- Integrated Eclipse and Flickerless Function
- Automatic White Balance with Hold Function (AWB)
- Auto Blemish Compensation (up to 32 Pixels)
- Adjustable Video Transmission Distance
- Supply Voltage: 12VDC/24VAC

Art-No.: 92499

eneo VKC-1341A/12-24

1/3“ Colour Camera, HighRes 540TVL, 12VDC/24VAC

- 1/3“ Super HAD Colour CCD Sensor
- Horizontal Resolution of 540 TV Lines
- Sensitivity of 0.23Lux at F1.2
- Digital Noise Reduction (DNR)
- Automatic Gain Control (AGC)
- Selectable Backlight Compensation Zones (BLC)
- High and Low Speed Shutter Control (MES/ESC/DSS)
- On-screen Menu Control / Camera Title Display
- Privacy Masking/Mirror Function/Motion Detection
- Picture Sharpness and Flickerless Adjustment
- Auto Iris and DC Iris Control
- C/CS Mount / Supply Voltage 12VDC/24VAC

Art-No.: 92078

eneo VK-1315S/12V

1/3“ B/W Camera 12VDC, 380TVL

Art-No.: 91927

eneo VK-1315S/230V

1/3“ B/W Camera 230VAC, 380TVL

Art-No.: 91929

eneo VK-1316S/12V

1/3“ B/W Camera, 12VDC, 570TVL

Art-No.: 91931

The shipping package for the illustrated cameras does not include a lens.

eneo VK-1316S/24V

1/3“ B/W Camera 24VAC, 570TVL

Art-No.: 91932

eneo VK-1316S/230V

1/3“ B/W Camera 230VAC, 570TVL

Art-No.: 91933

eneo VK-1319

1/3“ B/W Cylinder Camera with 3.6mm Lens, 12VDC, 420TVL

Art-No.: 91866

eneo VK-134

1/3“ B/W Board Camera in Housing with 3.6mm Lens, 12VDC, 380TVL

Art-No.: 91747

eneo VKC-1310S/12-24

1/3“ Colour Camera DSP, 12VDC/24VAC, 330TVL

Art-No.: 91951

eneo VKC-1310S/230V

1/3“ Colour Camera DSP, 230VAC, 330TVL

Art-No.: 91934

eneo VKC-1314

1/3“ Colour Board Camera in Housing with 3.6mm Lens, 12VDC, 380TVL

Art-No.: 91849

eneo VKC-1331

1/3“ Colour Cylindric Camera with 3.6mm Lens, 12VDC, 380TVL

Art-No.: 91978

eneo VKC-1328

1/3“ Colour Camera, DSP, 12VDC, 480TVL

Art-No.: 91963

eneo VKC-1311S/12-24

1/3“ Colour Camera DSP, 12VDC/24VAC, 480TVL

Art-No.: 91952

eneo VKC-1311S/230V

1/3“ Colour Camera DSP, 230VAC, 480TVL

Art-No.: 91935

eneo VKC-1341A

1/3“ Colour Camera, HighRes 540TVL, 100-240VAC

Art-No.: 92079

Security Cameras

eneo VKC-1345

1/3“ Colour Camera with DSP, AGC, APC BLC, ESC, AWB, 230VAC, 550TVL

Art-No.: 92061

eneo VKC-1345/12V

1/3“ Colour Camera with DSP, AGC, APC BLC, ESC, AWB, 12VDC, 550TVL

Art-No.: 92062

eneo VKC-1320/12-24

1/3“ Colour Camera with Built-in 3.3-8mm Varifocal Lens, DSP, 12VDC/24VAC, 480TVL

Art-No.: 91977

eneo VKC-1320

1/3“ Colour Camera with Built-in 3.3-8mm Vario Lens, DSP, 230VAC, 480TVL

Art-No.: 91918

eneo VKC-135

1/3“ Colour Board Camera with 4.0mm Lens 12VDC, 480TVL

Art-No.: 91506

eneo VKC-1420

1/4“ Colour Camera with 16x Zoom Lens DSP, DSS, 12VDC, 480TVL

Art-No.: 92043

eneo VKC-1421

1/4“ Colour Camera with 22x Zoom Lens DSP, DSS, 12VDC/24VAC, 480TVL

Art-No.: 92059

eneo VKC-1416/IR

1/4“ D&N Camera with 22x Zoom Lens, Removable IR CF, 12VDC, 480TVL

Art-No.: 92074

eneo VKC-1417/IR

1/4“ Day&Night Camera w. IR Illumination F1.6/3.5-91mm (26x Zoom), 480TVL, 12VDC

Art-No.: 91986

eneo VKC-1422

1/4“ D&N Camera with 30x Zoom Lens, Removable IR CF, 12VDC, 480TVL

Art-No.: 92089

Overview Security Cameras

	Art-No.	Type	Sensor	CCD-Format	Mount	Resol. (TVL)	Sensitivity (Lux)	Lens Control	Supply Voltage	Dimensions (HxWxD) mm	BLC	Eclipser	Interface
	91927	VK-1315S/12V	B/W	1/3“	C/CS	380	0.1	DC/AI	12VDC	54x62x127	√	–	–
	91929	VK-1315S/230V	B/W	1/3“	C/CS	380	0.1	DC/AI	230VAC	54x62x127	√	–	–
	91931	VK-1316S/12V	B/W	1/3“	C/CS	570	0.18	DC/AI	12VDC	54x62x127	√	–	–
	91932	VK-1316S/24V	B/W	1/3“	C/CS	570	0.18	DC/AI	24VAC	54x62x127	√	–	–
	91933	VK-1316S/230V	B/W	1/3“	C/CS	570	0.18	DC/AI	230VAC	54x62x127	√	–	–
	91866	VK-1319	B/W	1/3“	–	420	0.23	–	12VDC	60(L)x19(D)	–	–	–
	91747	VK-134	B/W	1/3“	–	380	0.58	–	12VDC	30x30x28	–	–	–
	91951	VKC-1310S/12-24	Colour	1/3”	C/CS	330	0.45	DC/AI	12VDC/24VAC	54x62x127	√	–	–
	91934	VKC-1310S/230V	Colour	1/3“	C/CS	330	0.45	DC/AI	230VAC	54x62x127	√	–	–
	91849	VKC-1314	Colour	1/3“	-	380	5.0**	-	12VDC	30x30x28	-	-	-
	91978	VKC-1331	Colour	1/3“	–	380	0.64	–	12VDC	75(L)x19(D)	–	–	–
	91963	VKC-1328	Colour	1/3“	CS	480	0.6	DC	12VDC	42.5x36x36.5	√	–	–
	91952	VKC-1311S/12-24	Colour	1/3“	C/CS	480	1.3	DC/AI	12VDC/24VAC	54x62x127	√	–	–
	91935	VKC-1311S/230V	Colour	1/3“	C/CS	480	1.3	DC/AI	230VAC	54x62x127	√	–	–
n. illustr.	92499	VKC-1349/12-24	Colour	1/3“	C/CS	540	0.8	DC/AI	12VDC/24VAC	50x55x62	√	√	–
n. illustr.	92508	VKC-1349	Colour	1/3“	-	540	0.8	DC/AI	230VAC	50x55x110	√	-	-
	92078	VKC-1341A/12-24	Colour	1/3“	C/CS	540	0.23	DC/AI	12VDC/24VAC	56x67.5x124	√	-	-
	92079	VKC-1341A	Colour	1/3“	C/CS	540	0.23	DC/AI	100 - 230VAC	56x67.5x124	√	-	-
	92061	VKC-1345	Colour	1/3“	C/CS	550	0.34	DC/AI	230VAC	59.5x65x137	√	-	-
	92062	VKC-1345/12V	Colour	1/3“	C/CS	550	0.34	DC/AI	12VDC	59.5x65x137	√	-	-
	91977	VKC-1320/12-24	Colour	1/3“	–	480	0.4	DC	12VDC/24VAC	54x62x170	√	–	–
	91918	VKC-1320	Colour	1/3“	–	480	0.4	DC	230VAC	54x62x170	√	–	–
	91506	VKC-135	Colour	1/3“	–	480	0.57	–	12VDC	51x58x39.5	√	–	–
	92043	VKC-1420	Colour	1/4“	–	480	1.46	–	12VDC	58x58x103	√	–	RS-485
	92059	VKC-1421	Colour	1/4“	-	480	1.54	-	12VDC/24VAC	66.5x58x103.4	√	–	RS-485/ZF
	92074	VKC-1416/IR	Colour/BW	1/4“	-	480	0.45	-	12VDC	70.3x62x105	√	–	RS-232/485
	91986	VKC-1417/IR	Colour/BW	1/4“	–	480	1.6	–	12VDC	60x60x92.8	√	–	RS-485
	92089	VKC-1422	Colour/BW	1/4“	-	480	1.0	-	12VDC	70.5x65x115	√	–	RS-485

Accessories

Art-No.	Type	Description
70448	VT-PS12DC-3	Plug-in Power Supply Unit 100-240VAC, 12VDC (1.0Amp), Regulated, w. Open Ends
91953	VKC-1310S/D	Dummy camera (VKC-1310S Series) with Dummy Lens

WDR Cameras

eneo VKC-1355

1/3“ Colour Camera w. Pixim Technology, WDR, 12VDC/24VAC, 480TVL

- Superior Images even in Harsh Backlight Conditions
- DPS (Digital Pixel System)
- Wide Dynamic Range 101dB (typ.), 120db (max.)
- Resolution of 480 Horizontal Lines
- Sensitivity of 0.36 Lux (F1.2)
- Removable IR Cut Filter
- Backlight Compensation (BLC)
- High and Low Speed Shutter Control (ESC/DSS)
- Manual and Auto White Balance (AWB/ATW)
- On-screen Menu Control and Camera ID Display
- Serial Interfaces / Mirror Function / Digital PTZ
- C/CS Mount / Motion Detection with Alarm Output

Art-No.: 92106

Solutions for difficult lighting conditions

A camera that features Wide Dynamic Range can show very bright and very dark areas in a scene at the same time without losing important details. We offer you two different approaches to utilise WDR:

Digital Pixel System
DPS™, coming to use in eneo VKC-1355 is a new technology that uses a special CMOS sensor that fundamentally changes the method of imaging processing in CCTV cameras. This is achieved by inclusion of an analogue-to-digital converter (ADC) within each single pixel of the image sensor. The chip can therefore allocate an optimal exposure time to each pixel. This considerably extends the camera’s dynamic range. The results are clear, realistic pictures rich with natural colours as normally recognised by the human eye.

Progressive Scan CCD
The eneo VKC-1350 is based on a Progressive Scan CCD, which reads out 50 frames per second, and not 50 fields per second, with PAL. The dynamic range is achieved here by processing the two frames in an image differently by using two separate automatic exposure time controls. In the simplest case, the controlled iris of a CD lens is responsible for exposing the darker sections of the first frame, whilst a shutter captures the light sections of the second frame. What’s more, a second shutter is used in the Sony SS2™ chipset. The two different frames are scanned by the Progressive Scan Sensor and can now be exposed for different times even without using a DC lens. The two optimally exposed frames are now combined into a video image.

with WDR

without WDR

eneo VKC-1350/12-24

1/3“ D&N, WDR, DSS Camera with Removable IR CF, CS Mount, 12/24V, 480TVL

Art-No.: 92069

eneo VKC-1350

1/3“ D&N, WDR, DSS Camera with Removable IR CF, CS Mount, 230VAC, 480TVL

Art-No.: 92071

eneo VKC-1334/W3

1/3“ Day&Night WDR Camera with Removable IR CF, F1.3/3.8-9.5mm, 480TVL, 12VDC

Art-No.: 96069

Overview WDR Cameras

Art-No.	Type	Day/ Night	CCD-Format	Lens Mount	Resol. (TVL)	Sensitivity (Lux)	Lens Control	Supply Voltage	BLC	Interface
92106	VKC-1355	√	1/3“	C/CS	480	0.36	DC	12VDC/24VAC	√	RS-485
92069	VKC-1350/12-24	√	1/3“	CS	480	0.35	DC	12VDC/24VAC	√	RS-485
92071	VKC-1350	√	1/3“	CS	480	0.35	DC	230VAC	√	RS-485
96069	VKC-1334/W3	√	1/3“	F1.3/3.8-9.5	480	0.001*	DC	12VDC	√	RS-485

* With Sens-up Function

The shipping package for the illustrated cameras does not include a lens (if not otherwise noted).

HIGHLIGHTS

Day/Night Cameras

eneo VKC-1354

1/3“ D&N, DNR, DSS Camera with Removable IR CF, CS Mount, 230VAC, 540TVL

- 1/3“ Super HAD Colour/B&W CCD Sensor
- Horizontal Resolution of 540 TV Lines
- Sensitivity of 0.23Lux at F1.2
- Digital Noise Reduction (DNR)
- Automatic Gain Control (AGC)
- Selectable Backlight Compensation Zones (BLC)
- High and Low Speed Shutter Control (MES/ESC/DSS)
- On-screen Menu Control / Camera Title Display
- Privacy Masking/Mirror Function/Motion Detection
- Picture Sharpness and Flickerless Adjustment
- Auto Iris and DC Iris Control
- C/CS Mount / Supply Voltage 230VAC

Art-No.: 92104

eneo VKC-1343/IR

1/3“ Day&Night Camera w. IR Illumination, F1.5/9-22mm, 480TVL, 12VDC/24VAC

- 1/3“ Sony Super HAD CCD Sensor
- High Sensitivity
- Automatic Gain Control (AGC)
- Backlight Compensation (BLC)
- Automatic Tracking White Balance (ATW)
- High and LowSpeed Shutter Control (ESC/DSS)
- Integral Varifocal Lens F1.5/9-22mm
- DC Iris Control / Removable IR Cut Filter
- IR Illumination by 40 Integral 850nm LEDs
- Illumination Range Approx. 50m
- Supply Voltage 12VDC/24VAC
- Protection Rating IP67

Art-No.: 92091

eneo VKC-1340A/12-24

1/3“ Day/Night Camera, HighRes 540TVL, Removable IR Cut Filter, 12VDC/24VAC

Art-No.: 92087

eneo VKC-1340A

1/3“ Day/Night Camera, HighRes 540TVL, Removable IR Cut Filter, 100-240VAC

Art-No.: 92088

eneo VKC-1350/12-24

1/3“ D&N, WDR, DSS Camera with Removable IR CF, CS Mount, 12/24V, 480TVL

Art-No.: 92069

eneo VKC-1350

1/3“ D&N, WDR, DSS Camera with Removable IR CF, CS Mount, 230VAC, 480TVL

Art-No.: 92071

eneo VKC-1353/IR

1/3“ Day/Night Camera w. IR Illumination F1.2/3.8-9.5mm, 550TVL, 12VDC/24VAC

Art-No.: 92098

eneo VKC-1317/IR-3.8

1/3“ D/N Camera, F2.0/3.8mm Lens, 850nm LED Illumination, 380TVVL

Art-No.: 91958

eneo VKC-1317/IR

1/3“ D/N Camera, F2.0/6mm Lens, 850nm LED Illumination, 380TVL

Art-No.: 91873

eneo VKC-1327/W3

1/3“ Day/Night Camera w. F1.3/3.8-9.5mm Lens, 12VDC/24VAC, 480TVL

Art-No.: 96059

eneo VKC-1327IR/W3

1/3“ Day/Night Camera w. IR Illumination F1.2/3.8-9.5mm, 12VDC/24VAC, 480TVL

Art-No.: 96060

eneo VKC-1333IR/W3

1/3“ Day/Night Camera w. IR Illumination F1.2/3.8-9.5mm, 12VDC/24VAC, 480TVL

Art-No.: 96066

eneo VKC-1354/12-24

1/3“ D&N, DNR, DSS Camera with Removable IR CF, CS Mount, 12/24V, 540TVL

Art-No.: 92103

eneo VKC-1330/IR

1/3“Day/Night Camera, DSP, EDR, RS-485, Rem. IR Cut Filter, 230VAC, 510TVL

Art-No.: 91968

Day/Night Cameras

eneo VKC-1330/IR12-24

1/3"Day/Night Camera, DSP, EDR, RS-485, Rem. IR Cut Filter, 12VDC/24VAC, 510TVL

Art-No.: 91967

eneo VKC-1417/IR

1/4" Day&Night Camera w. IR Illumination F1.6/3.5-91mm (26x Zoom), 480TVL, 12VDC

Art-No.: 91986

Overview Day/Night Cameras

Art-No.	Type	CCD-Format	Lens Mount	Resolution (TVL)*	Sensitivity (Lux)*	Sensup	Lens Control	Supply Voltage	Integrated IR Illumination	BLC	OSD	Interface
92087	VKC-1340A/12-24	1/3"	C/CS	540	0.14	-	DC/AI	12VDC/24VAC	√	√	-	RS-485
92088	VKC-1340A	1/3"	C/CS	540	0.14	-	DC/AI	100-240VAC	√	√	-	RS-485
92069	VKC-1350/12-24	1/3"	C/CS	480	0.0013	–	DC/AI	12VDC/24VAC	√	√		RS-485
92071	VKC-1350	1/3"	C/CS	480	0.0013	-	DC/AI	230VAC	√	√		RS-485
92098	VKC-1353/IR	1/3"	F1.2/3.8-9.5mm	550	0.65	-	DC	12VDC/24VAC	√	√	–	–
92091	VKC-1343/IR	1/3"	F1.5/9-22mm	480	0.28	-	-	12VDC/24VAC	√	√	-	-
91958	VKC-1317/IR-3.8	1/3"	F2.0/3.8mm	380	0.7	–	–	12VDC	√	–	–	–
91873	VKC-1317/IR	1/3"	F2.0/6mm	380	0.25	–	–	12VDC	√	–	–	–
96059	VKC-1327/W3	1/3"	F1.3/3.8-9.5mm	480	0.5	–	DC	12VDC	–	–	–	–
96060	VKC-1327IR/W3	1/3"	F1.3/3.8-9.5mm	480	0.5	–	DC	12VDC/24VAC	√	–	–	–
96066	VKC-1333IR/W3	1/3"	F1.3/3.8-9.5mm	480	0.006**	√	DC	12VDC/24VAC	√	–	–	–
92103	VKC-1354/12-24	1/3"	CS	540	0.23	–		12/24V	–	√	–	–
92104	VKC-1354	1/3"	CS	540	0.23		DC/AI	230VAC	-	√	-	-
91943	VKC-1323/IR-12V	1/3"	C/CS	450	0.45	–	DC/AI	12VDC	–	√	–	–
91968	VKC-1330/IR	1/3"	C/CS	480	0.001	√	DC/AI	230VAC	–	√	–	RS-232/ RS485
91967	VKC-1330/IR12-24	1/3"	C/CS	480	0.001	√	DC/AI	12VDC/24VAC	–	√	–	RS-232/ RS485
91986	VKC-1417/IR	1/4"	F1.6/3.5-91mm	480	0.78	–	DC	12VDC	√	√	√	RS485

* at colour mode ** with Sens-up Function

Accessories

Art-No.	Type	Description
70448	VT-PS12DC-6	Plug-in Power Supply Unit 100-240VAC, 12VDC (1.0Amp), Regulated, w. Open Ends

The shipping package for the illustrated cameras does not include a lens (if not otherwise noted).

HIGHLIGHT

360° Cameras

eneo ALMIRA C-1201

1/2“ CMOS 3M Pixel Camera 2048x1536, 360° Display, 3x Zoom, 11-16VDC

- Ultra Wide Angle CCTV Camera / 360° Panoramic View
- 4 Virtual Cameras (VCAMs) with ePTZ Functionality
- Resolution of >600TVL / Frame Rate: >12 Frames/sec
- 3x Optical Zoom (Sensor Zoom) and 5x Digital Zoom
- Lens: F1.8/1.8mm
- Frame Integration / Freeze Frame
- 128 Presets / 4 Tours with 64 Presets each
- 4 Alarm Inputs / 1 Output / 75 Privacy Zones
- Motion Detection / Motion Tracking
- 2 Independent Multi-view Configur. Analog Outputs
- Display Format: 2x180°, 360°, 4x90°, Quad, etc.
- No Moving Parts / No PC Required

Art-No.: 71701

eneo ALMIRA C-1202

1/2“ CMOS 3M Px. Camera 2048x1536, 360° Display, for HighSpeed Recording

Art-No.: 71702

Ultra wide angle CCTV camera

Blind spots are a thing of the past with eneo’s new ultra wide angle CCTV camera, the Almira. Because Almira delivers a 360° image field, which means a 100% overview, thanks to its special lens (fisheye). A 3-megapixel (2048x1536) high-resolution CMOS sensor gives permanent brilliant picture quality. Up to four virtual cameras (VCAMS) can be displayed with Almira and controlled with full PTZ functionality. Pictures can be displayed on the monitor in, for instance, 2 x 180° panorama, 4 x 90° panorama or 360° views. The two video outputs (FBAS) operate independently from one another, so that two users separated far apart can view camera images in different displays and execute PTZ functions. Each of the video outputs has individual keyboard control. The list of additional features is impressive: motion detection and motion tracking, intelligent alarm management, preset tours, privacy masking, sector naming.

Overview 360° Cameras

Art-No.	Type	CCD-Format	Lens	Sensitivity (Lux)*	Zoom Range	Virtual PTZ sector	Output	Supply Voltage	Interface
71701	ALMIRA C-1202	1/2“	3M Pixel 600TVL	2-5	3x optical**, 5x Digital	360°/170°	2xFBAS	12-16VDC	RS-485
71702	ALMIRA C-1201	1/2“	3M Pixel 600TVL	2-5	3x optical**, 5x Digital	360°/170°	2xFBAS Recorder Stream	12-16VDC	RS-485

* colour, ** sensor zoom

360° Cameras

eneo ALMIRA R-01

Digital Video Recorder, 400GB, for eneo Almira 360° Camera Series

- Complementary to Conventional Analog Recording
- Records Full 360° Sensor Output of Almira C-1202
- Unrestricted Retrospective ePTZ Capability
- eneo Almira Functionality on Recorded Images
- Simultaneous Recording and Playback
- Fast Zooming Timeline and Event Searching
- Up to 7 Days Recording at 4 Frames/Sec.
- Configurable Recording Modes
- Storage Capability up to 400GB
- Resolution of 3M Pixels (Recording and Playback)
- PAL or NTSC Video Format
- 4 Alarm Inputs / 1 Output (via eneo Almira)

Art-No.: 71703

Accessories

Art-No.	Type	Description
71703	ALMIRA R-01	Digital Video Recorder, 400GB, for eneo Almira 360° Camera Series
71704	ALMIRA LS1	Lens Shroud for eneo Almira Camera Series
71706	ALMIRA WDMK	Wall/Ceiling Mount Kit for eneo Almira Camera Series
74088	EDC-KBD1	System Keyboard with 3-axis Joystick, 12VDC/230VAC
74092	EDC-KBDM-3	System Keyboard w. Joystick, 5" Monitor 12VDC/230VAC, Fastrax Protocol
73743	KBD300A	System Keyboard with Joystick for Pelco Matrix Switchers CM6700/6800 and Esprit
73844	FW7362/12	Plugable AC/DC Adapter 100-240V/12VDC-2.5A, Regulated
70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66

Almira Display Options

360° view. The red rectangle indicates that a motion alarm was triggered

2x 180° panorama view guarantees full overview.

Full screen display with a thumbnail overview

2x quad view and 2x adjacent 180° panorama view.

4x quad view. In the right, lower window a programmed present tour is currently being panned.

Sector naming: the name given to the zone is shown.

HIGHLIGHTS

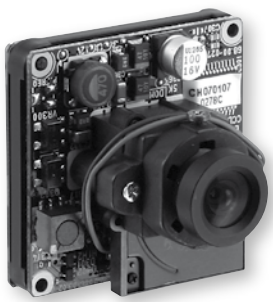
Board Cameras

eneo VKC-1334/VAR49

1/3“ D&N, WDR, DSS Board Camera with Removable IR CF, F1.3/3.8-9.5mm, 480TVL

- 1/3“ Progressive Scan CCD Sensor
- Wide Dynamic Function (WDR)
- Resolution of 480 Horizontal Lines (at Colour)
- Sensitivity of 0.001Lux at F1.2 (160x DSS/B&W)
- On-screen Menu Control / Camera Title Display
- Backlight Compensation (BLC)
- Removable IR Cut Filter
- Automatic White Balance (ATW/AWB)
- High and Low Speed Shutter Control (ESC/DSS)
- 3x Digital Zoom / 4 Privacy Zones adjustable
- External Day/Night Selection / RS-485 Interface
- Supply Voltage: 12VDC

Art-No.: 91992



eneo VKC-1352

1/3“ Day&Night Board Camera with Lens F2.0/3.8mm, 12VDC, 550TVL

- CCD Board Camera with Lens F2.0/3.8mm
- 1/3“ Super HAD CCD
- Resolution of 550 Horizontal Lines
- Sensitivity of 0.35Lux (at F1.2 & Colour)
- Removable IR Cut Filter
- Digital Signal Processing (DSP)
- Electronic Shutter Control (ESC)
- Automatic Gain Control (AGC)
- Backlight Compensation (BLC)
- Automatic White Balance (AWB)
- Supply Voltage 12VDC
- Board Dimensions 38x38mm

Art-No.: 92095

eneo VK-133

1/3“ B/W Board Camera with 3.8mm Lens 12VDC, 420TVL

Art-No.: 91746

eneo VK-133/PH

1/3“ B/W Board Camera with 3.7mm Pinhole Lens, 12VDC, 380TVL

Art-No.: 91773

eneo VK-1317S

1/3“ B/W Board Camera with 3,8mm Lens, 12VDC, 600TVL, 2,1Lux

Art-No.: 91926

Board Cameras

eneo VK-1317/PH

1/3“ B/W Board Camera with 3.7mm Pinhole Lens, 12VDC, 600TVL

Art-No.: 91872

eneo VK-1318/VAR48

1/3“ B/W Board Camera with 4-8mm Varifocal Lens, 12VDC, 600TVL

Art-No.: 91842

eneo VKC-144

1/4“ Colour Board Camera with 3.6mm Lens 12VDC, 380TVL

Art-No.: 91756

eneo VKC-144/PH

1/4“ Colour-Board Camera with 3.7mm Pinhole Lens, 12VDC, 380TVL

Art-No.: 91774

eneo VKC-1414/VAR36

1/4“ Colour Board Camera with Lens F1.2/3-9mm, 12VDC, 330TVL

Art-No.: 91983

eneo VKC-1413/VAR25

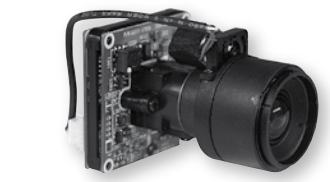
1/4“ Colour-Board Camera with 2.6-5.6mm Varifocal Lens, 12VDC, 380TVL

Art-No.: 91843

eneo VKC-1344/3.8

1/3“ Colour Board Camera with Len F2.0/3.8mm, 12VDC, 550TVL

Art-No.: 92077



eneo VKC-1339/VAR49

1/3“ Colour Board Camera with Lens F1.5/4-9mm, 330TVL

Art-No.: 91999

eneo VKC-1344/VAR49

1/3“ Colour Board Camera with Lens F1.5/4-9mm, 12VDC, 550TVL

Art-No.: 92072

eneo CB-341PC1V

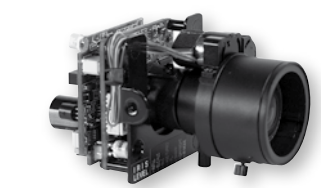
1/3“ Colour Board Camera with CS Mount, 12VDC, 480TVL

Art-No.: 92485

eneo VKC-1326/VAR49

1/3“ Day/Night Board Camera with F1.3/3.8-9.5mm Lens, 12VDC, 480TVL

Art-No.: 91959



eneo VKC-1327/VAR49

1/3“ Day/Night Board Camera with F1.2/3.8-9.5mm, Removable IR CF, 480TVL

Art-No.: 91961

Overview Board Cameras

Art-No.	Type	Sensor	Lens	Changeable Lens	CCD Format	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage	Dimensions (HxWxD) mm
91746	VK-133	B/W	F2,0/3,8	√	1/3“	380	1,6/0,58*	12VDC	32x32x25
91773	VK-133/PH	B/W	F4,0/3,7	–	1/3“	380	4,25/0,5	12VDC	32x32x14
91926	VK-1317S	B/W	F2,0/3,8	√	1/3“	600	2,1*	12VDC	30x30x25
91872	VK-1317/PH	B/W	F4,0/3,7	–	1/3“	600	6,4/0,75*	12VDC	30x30x25
91842	VK-1318/VAR48	B/W	F2,0/4-8	–	1/3“	600	2,1/0,75*	12VDC	30x30x55
91756	VKC-144	Colour	F2,0/3,6	√	1/4“	380	3,5/1,25*	12VDC	32x32x25
91774	VKC-144/PH	Colour	F4,0/3,7	–	1/4“	380	6,0/0,7*	12VDC	32x32x14
91843	VKC-1413/VAR25	Colour	F2,0/2,6-5,6	–	1/4“	380	3,5/1,25*	12VDC	32x32x55
91983	VKC-1414/VAR36	Colour	F1,2-360/3-9	–	1/4“	330	0,95/0,7*	12VDC	42x51x57,5
92077	VKC-1344/3.8	Colour	F2,0/3,8	–	1/3“	550	0,35*	12VDC	38x38x25
91999	VKC-1339/VAR49	Colour	F1,4/4-9	–	1/3“	330	0,38*	12VDC	38x38x59,3
92072	VKC-1344/VAR49	Colour	F1,5/4-9	–	1/3“	550	0,35*	12VDC	38x38x53
92095	VKC-1352	Colour	F2,0/3,8	–	1/3“	550	0,36*	12VDC	38x38x30
91959	VKC-1326/VAR49	Colour	F1,3/3,8-9,5	–	1/3“	480	0,005***	12VDC	42x51x67,7
91961	VKC-1327/VAR49	Colour	F1,3/3,8-9,5	–	1/3“	480	0,5****	12VDC	42x51x69,1
91992	VKC-1334/VAR49	Colour	F1,3/3,8-9,5	–	1/3“	480	0,001*****	12VDC	42x51x69,1

* at F1,2, ** at F0,95, ***With Sens-up function
**** 0,5Lux (0,32Lux) at colour; 0,24Lux (0,15Lux) at B&W, at F1,2 each (AGC-Turbo), Measurement result, *****BW-Mode

Accessories

Art-No.	Type	Description
40059	H0225M	F2.5/2.5mm Board Camera Lens, 1/3“ M12X0.5
40073	H02625M	F2.5/2.6mm Board Camera Lens, 1/3“, M12X0.5mm
40064	H0320M	F2.0/3.6mm Board camera lens, 1/3“ M12x0.5
40072	H0620M	F2.0/6mm Board Camera Lens, 1/3“ M12x0.5
40061	H0820M	F2.0/8mm Board Camera Lens, 1/3“ M12X0.5
40065	H1225	F2.5/12mm Board camera lens, 1/3“ M12x0.5
40062	I0323M	F3.5/2.3mm Board Camera Lens, 1/3“ M12X0.75
40063	I0635M	F3.5/6mm Board Camera Lens, 1/3“ M12X0.75
70448	VT-PS12DC-6	Plug-in Power Supply Unit 100-240VAC, 12VDC (1.0Amp), Regulated, w. Open Ends

Mounts for Cameras

eneo WD-21/RAL9006

Wall Mount Bracket with Ball Joint,
1/4“ Camera Fixing Screw, RAL9006

Art-No.: 70697

eneo WD-12

Wall Mount with Ball Joint,
1/4“ Camera Fixing Screw, RAL7032

Art-No.: 70650

eneo WD-13

Ceiling Mount with Ball Joint,
1/4“ Camera Fixing Screw, RAL7032

Art-No.: 70660

eneo WD-13/E

Ceiling Mount w. Ball Joint, extendable
1/4“ Camera Fixing Screw, RAL7032

Art-No.: 70220

eneo WD-8/MK

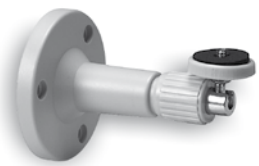
Wall Mount with Swivel Head,
1/4“ Camera Fixing Screw, Black Finish

Art-No.: 71310

eneo WD-9N

Wall Mount with Ball Joint,
1/4“ Camera Fixing Screw, Black Finish

Art-No.: 70023



eneo WD-22

Wall Mount Bracket with Ball Joint,
1/4“ Camera Fixing Screw, Beige Grey

Art-No.: 70769

eneo WD-24

Wall Mount with adjustable Swivel Head,
1/4“ Camera Fixing Screw, Black Finish

Art-No.: 70772

eneo WD-23

Wall Mount Bracket with Ball Joint,
1/4“ Camera Fixing Screw, Pantone 877

Art-No.: 70771

Overview Mounts for Cameras

	Art-No.	Type	Mounting Distance/ Height mm	Mounting	Load Capacity	Material	Colour	Weight
	70697	WD-21/RAL9006	125	Wall	0.5kg	Aluminium	RAL 9006	160g
	70650	WD-12	190	Wall	0.5kg	Aluminium	RAL 7032	220g
n. illustr.	70230	WD-12/E	210-310	Wall	0.5kg	Aluminium	RAL 7032	220g
	70660	WD-13	190	Ceiling	0.5kg	Aluminium	RAL 7032	440g
	70220	WD-13/E	210-310	Ceiling	0.5kg	Aluminium	RAL 7032	500g
	71310	WD-8/MK	186	Wall	3kg	Aluminium	black	240g
	70023	WD-9N	203	Wall	0.35kg	Aluminium	black	260g
n. illustr.	70688	WD-18	145/165	Wall/Ceiling	0.5kg	Plastic	beige	150g
	70769	WD-22	95/120	Wall/Ceiling	0.5kg	Plastic	beige	40g
	70772	WD-24	155	Wall/Ceiling	1.5kg	Plastic	black	90g
	70771	WD-23	130/155	Wall/Ceiling	0.5kg	Aluminium	Pantone 877	80g

eneo EMD-15C1/QUAD

Combo System with 15“ Monitor, 4-channel Multiplexer/DVR, 2x Cameras & Minidomes

Art-No.: 90469

eneo EMD-15C3/QUAD

Combo System with 15“ Monitor, 4-channel Mux/DVR, 1 Dome Camera VKCD-148SC

Art-No.: 90474

eneo EMD-15C2/QUAD

Combo System with 15“ Monitor, 4-channel Multiplexer/DVR, 1 Camera VKC-1418SC

Art-No.: 90473

eneo EMD-15/QUAD

15“ Monitor, 4-channel Multiplexer/DVR, Basic Unit, 100-240VAC

Art-No.: 90472

eneo VKC-1418SC

1/4“ Colour System Camera, CS, Lens, Wall Bracket, 18m RJ-11 Modular Cable

Art-No.: 92032

eneo VKCD-148SC

1/4“ Colour Dome Camera, Lens 3.6mm, 18m RJ-11 Modular Cable

Art-No.: 92033

eneo VKC-1342SC

1/3“ Colour System Camera, F2.0/3.6mm, Sunshield, 18m Cable, Wallbracket, IP67

Art-No.: 92042

Accessories

Art-No.	Type	Description
90405	EMD-AK/18	Connection cable, 18m for 4-channel Multiplexer/DVR Combo System EMD
90420	EMD-AIB	Alarm/Intercom Box for 4-ch. Multiplexer DVR Combo System EMD

eneo GL-Series Plug & Play

eneo GLC-1451/PP38B1

4x NW Colour Camera, F1.0/3-8mmDC,480TVL
VHM Housing, Network Recorder

- 1/3“ CCD Colour Camera w. MJPEG/MPEG-4 Compression
- Lens F1.0/3-8mm with DC Controlled Iris
- Recording Rate up to 50 Fields/Sec.
- E-Mail and FTP Transmission of Important Events
- Ethernet Interface 10/100Base-T
- Weatherprotected Housing with 24V Screen Heater
- Plugable Connector with 3m Multicore Cable
- Wall Mount Bracket WD-16
- 8-channel Digital IP Recorder
- Image Resolution of 720x544 Pixels max.
- Recording Rate 50 Fields/Sec.
- Integral 80Gbyte Hard Disk

Art-No.: 96082

GL Series

Easy Access

In addition to our Candid camera systems we can also offer you plug & play packs with network cameras. Part of the package is the eneo network colour camera GLC-1401 (page 32) with 480 TVL and motion detection which is integrated into the reliable VHM weatherproof housing. The packs are available with different lenses so they fulfil several applications. Like the Candid plug & play everything is ready to fit. Extremely practical: In the GLC-1451/PP38B1 the eneo digital network video recorder GLR-0108/80 (page 92) is included. The easiest access to the world of network based video surveillance available.

eneo GLC-1451/PP03

1/3“ Network Colour Camera, F1.2/2.8mmDC in VHM Weatherproof Housing, 480TVL

Art-No.: 96079

eneo GLC-1451/PP38

1/3“ Network Colour Camera, F1.0/3-8mmDC in VHM Weatherproof Housing, 480TVL

Art-No.: 96080

eneo GLC-1451/PP312

1/3“ NW Colour Camera, F1.4/2.8-12mm DC in VHM Weatherproof Housing, 480TVL

Art-No.: 96081

Overview eneo GL-Series Plug & Play

Art-No.	Typ	Sensor	Lens mm	CCD Format	Resolution (TVL)	Sensitivity (Lux)	Transmission via*	Cameras	Supply Voltage	Dimensions (HxWxD) mm
96082	GLC-1451/PP38B1	Colour	F1.0/3-8	1/3”	480	0.76	LAN/WAN	4	230VAC	125x133x473
96079	GLC-1451/PP03	Colour	F1.2/2.8	1/3”	480	0.5	LAN/WAN	1	230VAC	125x133x473
96080	GLC-1451/PP38	Colour	F1.0/3-8	1/3”	480	0.5	LAN/WAN	1	230VAC	125x133x473
96081	GLC-1451/PP312	Colour	F1.4/2.8-12	1/3”	480	0.5	LAN/WAN	1	230VAC	125x133x473

* Network-Interface: 10Base-T/100Base-TX

HIGHLIGHTS

NT Series

eneo NTC-2101

1/3“ Network D&N Colour Camera, 540TVL, 12VDC

- 1/3“ Super HAD Colour/B&W CCD Sensor
- Sensitivity of 0.2Lux at F1.2 (Colour)
- Digital Noise Reduction (DNR)
- High and Low Speed Shutter Control (MES/ESC/DSS)
- On-screen Menu Control / Camera Title Display
- Privacy Masking/Mirror Function/Motion Detection
- MPEG-4 Compression
- Image Frame Rate: Up to 25 Fr./Sec. (720x576 Px.)
- Viewer for Monitoring, Recording and Configuration
- Pre & Post Event Recording (in Client PC)
- Integrated Web Server: 10Base-T/100Base-TX
- E-mail Notification in Case of an Alarm

Art-No.: 93152

eneo NTC-4101

1/4“ Network D&N Colour Camera with 22x Zoom Lens, Removable IR CF, 12VDC, 480TVL

- 1/4“ Super HAD Colour/B&W CCD Sensor
- Integral 22x AF Zoom Lens / 11x Digital Zoom
- Sensitivity of 0.45Lux at F1.2 (Colour)
- Digital Noise Reduction (DNR)
- High and Low Speed Shutter Control (MES/ESC/DSS)
- On-screen Menu Control / Camera Title Display
- MPEG-4 Compression
- Image Frame Rate: Up to 25 Fr./Sec. (720x576 Px.)
- Viewer for Monitoring, Recording and Configuration
- Pre and Post Event Recording (in Client PC)
- Integrated Web Server: 10Base-T/100Base-TX
- E-mail Notification in Case of an Alarm

Art-No.: 93153

eneo NTC-4161/PP

1/4“ Network D&N Colour Camera with 22x Zoom Lens, in Candid Housing

Art-No.: 93157

eneo NT-Manager

Control, recording and configuration software for NT Series network products

included in delivery

Overview eneo Network Cameras NT-Series

Art-No.	Type	Compression Standard	Audio Support	Transmission via*	Mount	Resolution (TVL)	Supply Voltage	Interface	Dimensions (HxWxD) mm
93152	NTC-2101	MPEG-4	-	LAN/WAN	C/CS	720x576	12VDC	-	70.4x62x106
93153	NTC-4101	MPEG-4	-	LAN/WAN	-	720x576	12VDC	RS-232/RS-485	63x66x120
93157	NTC-4161/PP	MPEG-4	-	LAN/WAN	-	720x576	12VDC	RS-232/RS-485	101x113x420

* Network-Interface: 10Base-T/100Base-TX

Overview eneo NT-Series

HARDWARE

NT Series

NTD-6101/18
IP-Version of the successful eneo Fastrax Domes
(Page 45-46)

NTD-4101
IP-Version of the successful eneo Minitrax Dome
(Page 45-46)

NTD-2101
Vandalism-proof IP Minidome
(Page 45-46)

Complete IP Line

We provide you with a complete range of high-quality IP products with the eneo NT Series. You can count on everything you need from a powerful programme – from the IP versions of our successful "Fastrax" and "Minitrax" Dome Series, through cameras, and right up to video servers. Each product comes bundled with the free "eneo NT-Manager" software for control, recording and configuration.

NTC-4161/PP
1/4" Network D&N Colour Camera in Candid Housing
(Page 29)

NTC-4101
1/4" Network Day & Night Colour
(Page 29)

NTC-2101
1/3" Network Day & Night Colour Camera
(Page 29)

NTS-2104
4-Channel Network Video Server
(Page 124)

NTS-2101
1-Channel Network Video Server
(Page 76)

SOFTWARE

NT Series

eneo NT-Manager Software

Control, recording and configuration software for NT-Series network products

- Simultaneous connection of up to four video sources
- Efficient, stable and fast network connection
- Access to device setup and configuration
- Full PTZ functionality (if supported by the video source)
- Event- and time-controlled recording
- Time-controlled image search with event display
- Bidirectional audio
- Intuitive user interface
- Bundled with all NT Series products

Bundled Software

Up to four video sources can be displayed, recorded and configured simultaneously over the intuitively operated user interface of the NT-Manager software. (The program will soon be able to process 16 video sources – wait for the download in the NT-Series area on the website.) Of course, video images can be displayed full screen. Pan/Tilt video sources can easily be controlled over the PTZ Menu: In addition to models with real-time telemetry functions, mouse actions can actuate and save presets as well as display guard tours and patterns.

Via the Search menu the Calendar can be used to jump to the desired recording period. The 24-hour Time List then differentiates between the following colour-marked events: Alarm (blue), Motion (red) and Manually Triggered Recordings (green). The program also offers bidirectional audio as well the option to record according to a configured schedule in addition to multi-level password protection. The software is bundled with all NT-Series products. This means that you get an extremely powerful tool for operation and configuration of the NT products in your IP-based video surveillance system – without any additional costs.

eneo Network Cameras GL-Series

HIGHLIGHTS

GL Series

eneo GLC-1401

1/3“ Network Colour Camera w. CS Mount, integr. Web Server, 5VDC/ 230VAC, 480TVL

- 1/3“ CCD Colour Camera with C/CS Mount
- Horizontal Resolution of 480 TV Lines
- Automatic Shutter Control (AES)
- MJPEG or MPEG-4 Video Compression
- Simultaneous Video and Audio Signal Transmission
- E-Mail and FTP Transmission of Important Events
- Integrated Activity Detection
- Ethernet Interface: 10/100Base-TX
- Supports Various Network Environments
- Alarm In/Output, Audio Output
- Upgrade via SD Card, USB Interface and Network
- SD Socket for Local Video Storage by SD Cards

Art-No.: 91535

eneo GLC-0501

1/3“ Network Colour Camera w. CS Mount, integr. Web Server, 5VDC/ 230VAC, 340TVL

- 1/3“ CCD Colour Network Camera
- Horizontal Resolution of 340 TV Lines
- Automatic Shutter Control (AES)
- C/CS Mount
- MJPEG Compression
- Simultaneous Video and Audio Signal Transmission
- E-Mail and FTP Transmission of Important Events
- Activity Detection
- Ethernet Interface: 10/100Base-TX
- 6mm Lens Supplied
- SD Socket for Local Video Storage by SD Card

Art-No.: 91534

Overview eneo Network Cameras GL-Series

Art-No.	Type	CCD Format	Mount	Resolution (TVL)	Sensitivity (Lux)	Transmission via*	Interface	Compress. Standard	Alarm Input	Supply Voltage	Dimensions (HxWxD) mm
91535	GLC-1400	1/3“	CS	480	0.5	LAN/WAN	√	MJPEG/MPEG-4	1	5VDC/230VAC	50x62x95
91534	GLC-0501	1/3“	CS	340	0.26	LAN/WAN	√	MJPEG	1	5VDC/230VAC	50x62x95

* Network-Interface: 10Base-T/100Base-TX

eneo GLR-0108/80

Digital IP Recorder (8 Channel), 80Gb 12VDC/230VAC

Art-No.: 91536

eneo GLA-6006

HDD Viewer for Digital Recorder Series DSR and DNR, 12VDC/230VAC

Art-No.: 91537

eneo GL-Manager

Control, recording and configuration software for GL-Series network cameras

included in delivery

Plug & Play Minidomes

eneo VKCD-1310/VAR49

1/3“ Colour/B&W Surface Mount Camera, F1.2/3.8-9.5mm, Removable IR CF, 480TVL

- For Drop Ceiling or Wall Mount
- Clear bubble with Inner Liner
- Resolution of 480 Horizontal Lines
- Sensitivity of 0.36Lux (B&W)
- Built-in Lens F1.2/3.8-9.5mm with DC Iris Control
- Automatic and Manual Removable IR Cut Filter
- Digital Signal Processing (DSP)
- Automatic Shutter Control (AES)
- Automatic White Balance (ATW)
- Easy Installation
- Supply Voltage: 12VDC
- Option: Wallbracket

Art-No.: 91997

eneo VKD-134

1/3“ B&W Dome Camera, Drop Ceiling Mount with 3.7mm lens, 12VDC, 420TVL

Art-No.: 91781

eneo VKD-135

1/3“ B&W Dome Camera, In-Ceiling Mount with 3.7mm lens, 12VDC, 420TVL

Art-No.: 91782

eneo VKD-136

1/3“ B&W Dome Camera, Drop Ceiling Mount with 3.6mm lens, 12VDC, 420TVL

Art-No.: 91799

Further Minidomes as well as a table summary see the next page

Minidomes

eneo VKCD-134

1/3“ Colour Dome Camera Drop Ceiling Mount, 3.7mm Lens, 12VDC, 380TVL

Art-No.: 91787

eneo VKCD-135

1/3“ Colour Dome Camera In-Ceiling Mount with 3.7mm Lens, 12VDC, 380TVL

Art-No.: 91788

eneo VKCD-143

1/4“ Colour Dome Camera, Drop Ceiling Mount, 3.6mm Lens, 12VDC, 330TVL

Art-No.: 91801

eneo VKCD-144/HR

1/4“ Colour Dome Camera, Drop Ceiling Mount, with 3.6mm Lens, 12VDC, 480TVL

Art-No.: 91837

eneo VKCD-145/VAR39

1/4“ Colour Dome Camera, Drop Ceiling Mount, F1.2/3-9mm Lens, 12VDC,330TVL

Art-No.: 91979

eneo VKCD-146/VAR39

1/4“ Colour Dome Camera, Drop Ceiling Mount, F1.2/3-9mm Lens, 12VDC,480TVL

Art-No.: 91982

eneo VKCD-136/VAR39

1/3“ Colour/B&W Surface Mount Camera with F1.2/3-9mm Lens, 12VDC, 480TVL

Art-No.: 91998

Overview Minidomes

	Art-No.	Type	Sensor	Lens mm	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage	Dimensions (HxWxD) mm
n. illustr.	91781	VKD-134	B/W	F2.0/3.7	1/3“	420	1.05	12VDC	42.5x46.5x46.5
n. illustr.	91782	VKD-135	B/W	F2.0/3.7	1/3“	420	1.05	12VDC	42.5x65x46.5
n. illustr.	91799	VKD-136	B/W	F2.0/3.6	1/3“	420	0.58	12VDC	100x104x104
	91787	VKCD-134	Colour	F2.0/3.7	1/3“	380	2	12VDC	42.5x46.5x46.5
	91788	VKCD-135	Colour	F2.0/3.7	1/3“	380	2	12VDC	42.5x65x46.5
	91801	VKCD-143	Colour	F2.0/3.6	1/4“	400	0.53	12VDC	70(H)x86.5(∅)
	91837	VKCD-144/HR	Colour	F2.0/3.6	1/4“	480	0.56	12VDC	70(H)x86.5(∅)
	91979	VKCD-145/VAR39	Colour	F1.2/3-9	1/4“	330	0.94	12VDC	113(H)x108(∅)
	91982	VKCD-146/VAR39	Colour	F1.2/3-9	1/4“	480	2.0	12VDC	113(H)x108(∅)
n. illustr.	91997	VKCD-1310/VAR49	Colour	F1.2/3.8-9.5 DC	1/3“	480	0.92	12VDC	113(H)x108(∅)
	91998	VKCD-136/VAR39	Colour	F1.2/3-9 DC	1/3“	480	0.25	12VDC	113(H)x108(∅)

Accessories

Art-No.	Type	Description
91805	VKCD/WMB-1	Wall Mount for VKD-136, VKCD-143 VKCD-144/HR
91883	VKCD/WMB-2	Wall Mount Bracket, Grey, for VKCD-136, VKCD-145, VKCD-146, VKCD-1310
92047	VKCD/WMB-2SW	Wall Mount Bracket, Black, for VKCD-136, VKCD-145, VKCD-146, VKCD-1310
70447	VT-PS12DC-5	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, with DC Plug
70448	VT-PS12DC-6	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, w. Open Ends

eneo Minitrax Domes

eneo EDMC-142

1/4“ Colour High Speed Mini Dome Camera with 10x Zoom Lens, 24VAC, 430TVL

- 1/4“ Vandal Proof PTZ Colour Dome Camera
- 10x Optical and 10x Digital Zoom (100x Total)
- Zoom Lens: F1.6/3.15-31.5mm
- Horizontal Pan Range: 0 to 359°
- Horizontal Speed Range: 0 to 120°/sec.
- 60 Presets / 4 Auto Scan Courses
- 4 Tours with 4 Presets each / Home Position
- On-screen Menu Control and Camera ID Display
- High Speed Shutter (AES)
- Automatic and Manual White Balance (ATW)
- RS-485 Interface
- Supply Voltage: 12VDC/24VAC

Art-No.: 74116

eneo Minitrax closes the gap to the big ones

In its compact and vandalism-proof housing, the Minitrax delivers clear pictures of incidents in very endangered areas. The 1/4” colour dome camera with a resolution of 430 TV lines boasts a remote controlled motor zoom lens with 10x optical and 10x digital zooms; the focal length range is 3.15-31.5 mm (F1.6) and the light sensitivity 1.5 lux. Minitrax moves into positions at speeds up to 120°/sec, and up to 60 presets can be stored.

The dome camera is the ideal choice for internal and external use, and in addition to the RS-485 serial interface it offers numerous features of its big brothers in the Fastrax Series. These include Programmable Guard Tours, AGC, Backlight Compensation and Automatic White Balance. Its maximum horizontal rotation of 359° and 90° tilt angle make the Minitrax ideal for professional surveillance, for instance in the banking or retail sectors. The robust cast aluminium dome installation housing, shatterproof dome and fully hidden cable routing ensure protection against manipulation or sabotage. The two eneo EDC-KBD1 and EDC-KBDM-3 System Keyboards are available for controlling the Minitrax, their features include manual Iris and Focus Control as well as input and retrieval of guard tours, tours and sequences. The camera can also be controlled by the eneo DLR and DXR series of digital recorders so that they are easy to install in existing eneo CCTV systems. By the way: two different wall mounts are obtainable as accessories to provide an alternative to ceiling and wall installation.

Overview Minitrax Domes

Art-No.	Type	CCD-Format	Sensitivity	Resolution	Zoom Range opt./dig.	Lens mm	Serial Interface	Alarm I/O	Heater	Bubble ø
74116	EDMC-142	1/4”	0.85Lux	430TVl	10/10	F1.6~F32/3.15 ~ 31,5	√	1/-	Option	3.9”

Accessories

Art-No.	Type	Description
74092	EDC-KBDM-3	System Keyboard w. Joystick, 5“ Monitor 12VDC/230VAC, Fastrax Protocol
74088	EDC-KBD1	System Keyboard with 3-axis Joystick, 12VDC/230VAC
74107	EDMC-RTB	Roof Mount Bracket for Minitrax Camera Series, Outdoor Installation
74097	EDMC/CWB	Wall or Pendant Mount Kit for EDMC Dome Camera and WDDG-1 Series
74094	EDC-COAX	Coax Telemetry Board for VPT-41/42, EDC/EDMC Series. assembled
74099	EDMC/H12	Low Voltage Heater Kit 12V/10W for Minitrax Series
74104	EDMC/H24	Low Voltage Heater Kit 24V/10W for Minitrax Series

* Installation by technical service necessary

HIGHLIGHT

eneo Fastrax Plug & Play

eneo EDCH-144E/C

1/4“ Day&Night 26x HighSpeed Dome Camera Housing, Clear Bubble, 24VAC, 480TVL

- High Resolution Colour/B&W Dome Camera
- 26x Optical and 12x Digital Zoom (264 Total)
- Zoom Lens F1.6/3.5-91mm / Removable IR Cut Filter
- High und Low Speed Shutter
- 80 Presets / 4 Patterns / Digital Flip
- 4 Tours and 4 Autopans
- 8 Dynamic Window Blanking (Privacy Zones)
- RS-485 Interface
- Supply Voltage 18 to 30VAC, 50/60Hz
- Outdoor Housing with clear Bubble
- Sunshield, Heater and Blower Kit included
- Protection Rating IP65

Art-No.: 74119

eneo EDCH-142E/C

1/4“ Day&Night 22x HighSpeed Dome Camera, Clear Bubble/Wall Mount, 24VAC, 480TVL

- High Resolution Colour/B&W Dome Camera
- 22x Optical and 11x Digital Zoom (242 Total)
- Zoom Lens F1.6/3.8-83.6mm/ Removable IR Cut Filter
- High und Low Speed Shutter
- 80 Presets / 4 Patterns / Digital Flip
- 4 Tours and 4 Autopans
- 8 Dynamic Window Blanking (Privacy Zones)
- RS-485 Interface
- Supply Voltage 18 to 30VAC, 50/60Hz
- Outdoor Housing with clear Bubble
- Sunshield, Heater and Blower Kit included
- Vandalism Resistant / Protection Rating IP65

Art-No.: 74123

Overview eneo Fastrax Plug & Play Domes

Art-No.	Type	Day/ Night	Lens mm	CCD-Format	Sensitivity (Lux)	Resolution (TVL)	Zoom Range opt./dig.	Window Blanking	Alarm I/O	Bubble 6,3“
74119	EDCH-144E/OWC	√	F1.6/3.5 ~ 91	1/4”	0.30	480	26/12	√	1/4	√
74123	EDCH-142E/OWC	√	F1.6/3.8 ~ 83.6	1/4”	0.75	480	22/11	√	1/4	√

Accessories

Art-No.	Type	Description
74127	EDC-WMB1	Wall Mount for EDCH Dome Cameras with Mounting Kit
74128	EDC-CMT1	Ceiling Mount Tube with Flange Plate for EDCH Dome Cameras with Mounting Kit
74125	EDC AKS1	Power&Connection Box with Wallbracket for Indoor/Outdoor, 230V-24VAC/2.4A
74054	EDC-CMA2	Corner Mount Adapter for EDC-IPS/OPC Housings
74055	EDC-PM7	Pole Mount Adapter for EDC-IPS/OPC Housings, (70-140mm Pole)
70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66
74088	EDC-KBD1	System Keyboard with 3-axis Joystick, 12VDC/230VAC
74092	EDC-KBDM-3	System Keyboard w. Joystick, 5“ Monitor 12VDC/230VAC, Fastrax Protocol
74118	KBD-1	System keyboard with joystick 12VDC/230VAC

*Wall Mount not included

BESTSELLER

eneo Fastrax Domes

eneo EDC-142E2

1/4“ Day&Night High Speed Economy Dome Camera, 22x Zoom Lens, 24VAC, 480TVL

- Colour/B&W Dome Camera (Super HAD Colour CCD)
- Wide Dynamic Range (WDR)
- 22x Optical and 10x Digital Zoom (220 Total)
- Zoom Lens: F1.6/3.9-85.8mm
- Removable IR Cut Filter
- Pattern, Tour and Autopan Function
- 240 Presets
- Dynamic Window Blanking
- RS-485/RS-422 Interface
- 8 Alarm Inputs / 4 Outputs
- Programmable Alarm Action with Priority Levels
- Supply Voltage: 18 to 30VAC, 50/60Hz

Art-No.: 74117

eneo EDC-144E

1/4“ Day&Night High Speed Dome Camera with 26x Zoom Lens, 24VAC, 480TVL

- High Resolution Colour/B&W Dome Camera
- 26x Optical and 12x Digital Zoom (264 Total)
- Zoom Lens: F1.6/3.5-91mm / Removable IR Cut Filter
- High und Low Speed Shutter
- 240 Presets
- 4 Patterns
- 8 Tours and 8 Autopans with Vector Scan
- 8 Dynamic Window Blanking (Privacy Zones)
- RS-485/RS-422 Interface
- 8 Alarm Inputs / 4 Outputs
- Quick Detachable (Hot Swap)
- Supply Voltage: 18 to 30VAC, 50/60Hz

Art-No.: 74100

Overview eneo Fastrax Domes

	Art-No.	Type	Day/ Nigt	Lensmm	CCD-Format	Sensitivity (Lux)	Resolution (TVL)	Zoom Range opt./dig.	Window Blanking	Alarm I/O	Bubble 4,9“
n. illustr.	74086	EDC-141E	√	F1,4/4,1-73,8	1/4”	0.5	480	18/12	√	8/4	√
	74117	EDC-142E2	√	F1,6/3,8 ~ 83,6	1/4”	0.75	480	22/12	√	8/4	√
n. illustr.	74091	EDC-143E	√	F1,6/3,6-82,8	1/4”	0.7	480	23/10	√	8/4	√
	74100	EDC-144E	√	F1,6/3,5-91	1/4”	0.35	480	26/12	√	8/4	√

eneo EDC-KBD1

System Keyboard with 3-axis Joystick, 12VDC/230VAC

Art-No.: 74088

eneo EDC-KBDM-3

System Keyboard w. Joystick, 5" Monitor 12VDC/230VAC, Fastrax Protocol

Art-No.: 74092

eneo KBD-1

System keyboard with joystick 12VDC/230VAC

Art-No.: 74118

eneo EDC-IPC-1/230V

Pendant Mount Indoor Dome Housing Clear Bubble 6.8", 230VAC

Art-No.: 74082

eneo EDC-IPS-1/230V

Pendant Mount Indoor Dome Housing Tinted Bubble 6.8", 230VAC

Art-No.: 74083

eneo EDC-OPC-1/230V

Pendant Mount Outdoor Dome Housing Clear Bubble 6.8", 230VAC

Art-No.: 74084

eneo EDC-OPS-1/230V

Pendant Mount Outdoor Dome Housing Tinted Bubble 6.8", 230VAC

Art-No.: 74085

eneo EDC-IPC-1/24V

Pendant Mount Indoor Dome Housing Clear Bubble 6.8", 24VAC

Art-No.: 74077

eneo EDC-IPS-1/24V

Pendant Mount Indoor Dome Housing Tinted Bubble 6.8", 24VAC

Art-No.: 74075

eneo Fastrax Domes Accessories

eneo EDC-OPC-1/24V

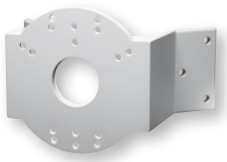
Pendant Mount Outdoor Dome Housing
Clear Bubble 6.8“, 24VAC

Art-No.: 74076

eneo EDC-OPS-1/24V

Pendant Mount Outdoor Dome Housing
Tinted Bubble 6.8“, 24VAC

Art-No.: 74078



eneo EDC-CMA2

Corner Mount Adapter for EDC-IPS/OPC
Housings

Art-No.: 74054

eneo EDC-RTB1

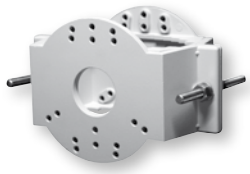
Roof Mount Bracket for Fastrax Outdoor
Housings (w./o. Dome Housing)

Art-No.: 74106

eneo EDC-PRMB

Parapet and Roof Mount Bracket for
Fastrax Housings (w./o. Dome Housing)

Art-No.: 74090



eneo EDC-PM7

Pole Mount Adapter for EDC-IPS/OPC
Housings, (70-140mm Pole)

Art-No.: 74055

Accessories

	Art-No.	Type	Description
	74088	EDC-KBD1	System Keyboard with 3-axis Joystick, 12VDC/230VAC
	74092	EDC-KBDM-3	System Keyboard w. Joystick, 5“ Monitor 12VDC/230VAC, Fastrax Protocol
	74118	KBD-1	System keyboard with joystick 12VDC/230VAC
n. illustr.	74124	FASTRAX_CONFIG	Configuration Software for Eneo Fastrax, Minitrax Dome Cameras and Module Cameras
n. illustr.	74057	EDC-IDF	Flush Mount Dome Housing, Smoked Bubble 4.9“
	74082	EDC-IPC-1/230V	Pendant Mount Indoor Dome Housing Clear Bubble 6.8“, 230VAC
	74083	EDC-IPS-1/230V	Pendant Mount Indoor Dome Housing Tinted Bubble 6.8“, 230VAC
	74084	EDC-OPC-1/230V	Pendant Mount Outdoor Dome Housing Clear Bubble 6.8“, 230VAC
	74085	EDC-OPS-1/230V	Pendant Mount Outdoor Dome Housing Tinted Bubble 6.8“, 230VAC
	74077	EDC-IPC-1/24V	Pendant Mount Indoor Dome Housing Clear Bubble 6.8“, 24VAC
	74075	EDC-IPS-1/24V	Pendant Mount Indoor Dome Housing Tinted Bubble 6.8“, 24VAC
	74076	EDC-OPC-1/24V	Pendant Mount Outdoor Dome Housing Clear Bubble 6.8“, 24VAC
	74078	EDC-OPS-1/24V	Pendant Mount Outdoor Dome Housing Tinted Bubble 6.8“, 24VAC
	74054	EDC-CMA2	Corner Mount Adapter for EDC-IPS/OPC Housings
	74106	EDC-RTB1	Roof Mount Bracket for Fastrax Outdoor Housings (w./o. Dome Housing)
	74090	EDC-PRMB	Parapet and Roof Mount Bracket for Fastrax Housings (w./o. Dome Housing)
	74055	EDC-PM7	Pole Mount Adapter for EDC-IPS/OPC Housings, (70-140mm Pole)
n. illustr.	74094	EDC-COAX	Coax Telemetry Board for VPT-41/42, EDC/EDMC Series. assembled
n. illustr.	74095	EDC-BPC	Protocol Converter BiPhase to RS-422, RS-485 for EDC Dome Cameras, 12VDC
n. illustr.	74089	EDC-CR1	Converter RS-232/RS-485, Repeater RS-485
n. illustr.	70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66

* Installation by technical service necessary

Plug & Play Vandalism-Proof Fix Domes

eneo VKCD-149

1/4“ Colour Dome Camera, Surface Mount, 16x Zoom Lens, DSS, 12VDC/ 24VAC, 480TVL

- For Wall and Ceiling Surface Mount
- Vandal and Tamper-Resistant
- Tinted Lexan Bubble, 100mm
- 1/4“ Colour Camera with Super HAD CCD
- Integrated 16x AF Motor Zoom Lens/12x Digital Zoom
- Back Light Compensation (BLC)
- Low Speed Shutter Control up to 128 Fields (DSS)
- Automatic Gain Control (AGC)
- Automatic White Balance (AWB)
- RS-485 Serial Control Interface
- Supply Voltage: 12VDC / 24VAC
- Certified according to BGV Kassen

Art-No.: 92063

eneo VKCD-1318/IR

1/3“ Day&Night Dome Camera with IR Illumination, F1.2/3.8-9.5mm, 540TVL

- 1/3“ Super HAD CCD Sensor
- Integrated F1.2/3.8-9.5mm Varifocal DC Iris Lens
- Removable IR Cut Filter
- Sensitivity of 0.5Lux at F1.2
- Digital Signal Processing (DSP)
- Backlight Compensation (BLC) / Flickerless ON/OFF
- Automatic White Balance (AGC)
- Automatic White Balance (ATW/AWB)
- IR Illumination by 36 integrated 850nm LEDs
- Manual 3-axis Camera Gimbal
- Supply Voltage 12VDC or 24VAC
- For Wall and Ceiling Surface Mount

Art-No.: 92105

eneo VK-1320/WDDG1

1/3“ B/W Dome Camera, In-Ceiling Mount with 4-8mm Varifocal Lens, 12VDC, 380TVL

Art-No.: 91971

eneo VK-1320/WDDG2

1/3“ B/W Dome Camera, Drop-Ceiling Mount with 4-8mm Varifocal Lens, 12VDC, 380TVL

Art-No.: 91972

eneo VK-1318/WDDG1

1/3“ B/W Dome Camera, In-Ceiling Mount with 4-8mm Varifocal Lens, 12VDC, 600TVL

Art-No.: 91944

eneo Vandalism-Proof Fix Domes

eneo VK-1318/WDDG2

1/3“ B/W Dome Camera, Surface Mount with 4-8mm Varifocal Lens, 12VDC, 600TVL

Art-No.: 91897

eneo VKC-1413/WDDG2

1/4“ Colour Dome Camera, Surface Mount with F2.0/2.6-5.6mm Lens, 12VDC, 380TVL

Art-No.: 91896

eneo VKC-1327/WDDG1

1/3“ Day/Night Dome Camera, In-ceiling F1.2/3.8-9.5mm, Removable IR CF, 480TVL

Art-No.: 91955

eneo VKC-1327/WDDG2

1/3“ Day&Night Dome Camera, Surface Mnt. F1.2/3.8-9.5mm, Removable IR CF, 480TVL

Art-No.: 91956

eneo VKCD-1312FM/MF

1/3“ Colour Dome Camera,In-ceiling Mount with 3.8mm Lens, 12VDC, 380TVL

Art-No.: 92051

eneo VKCD-1312SM/MF

1/3“ Colour Dome Camera, Surface Mount with 3.8mm Lens, 12VDC, 380TVL

Art-No.: 92052

eneo VKCD-1313FM/MF

1/3“ Colour Dome Camera,In-ceiling Mount with 3.8mm Lens, 12VDC, 550TVL

Art-No.: 92053

eneo VKCD-1313SM/MF

1/3“ Colour Dome Camera, Surface Mount with 3.8mm Lens, 12VDC, 550TVL

Art-No.: 92054

eneo VKCD-1311SM/VF

1/3“ Colour Dome Camera, Surface Mount with F1.5/4-9mm Lens, 12VDC, 550TVL

Art-No.: 92049

eneo VKCD-1311FM/VF

1/3“ Colour Dome Camera,In-ceiling Mount with F1.5/4-9mm Lens, 12VDC, 550TVL

Art-No.: 92048

eneo VKCD-1314FM/VF

1/3“ Colour Dome Camera,In-ceiling Mount F1.5/4-9mm Lens, 12VDC, 480TVL

Art-No.: 92055

eneo VKCD-1314SM/VF

1/3“ Colour Dome Camera, Surface Mount, F1.5/4-9mm Lens, 12VDC, 480TVL

Art-No.: 92056

eneo VKCD-1315FM/VF

1/3“ Day&Night Dome Camera, In-ceiling F1.2/3.8-9.5mm, Removable IR CF, 480TVL

Art-No.: 92057

eneo VKCD-1315SM/VF

1/3“ Day&Night Dome Camera, Surface Mnt. F1.2/3.8-9.5mm, Removable IR CF, 480TVL

Art-No.: 92058

eneo VKCD-1317FMH/VF

1/3“ D&N Dome Camera, Flush Mount,Heater F1.2/3.8-9.5mm, 12VDC/24VAC, 550TVL

Art-No.: 92096

eneo VKCD-1317SMH/VF

1/3“D&N Dome Camera, Surface Mnt.,Heater F1.2/3.8-9.5mm, 12VDC/24VAC, 550TVL

Art-No.: 92097

eneo VKCD-1316/IR

1/3“ Day&Night Dome Camera with IR Illumination, F1.2/3.8-9.5mm, 540TVL

Art-No.: 92093

eneo Vandalism-Proof Fix Domes

Overview eneo Vandalism-Proof Fix Domes

Art-No.	Type	Sensor	Lens mm	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage	Integrated IR Illumination	Protection Rating	Dimensions (HxWxD) mm
91971	VK-1320/WDDG1	B/W	F2.0-2.8/4-8	1/3“	380	0.14	12VDC	-	IP65	120x120x92
91972	VK-1320/WDDG2	B/W	F2.0-2.8/4-8	1/3“	380	0.14	12VDC	-	IP65	120x120x92
91944	VK-1318/WDDG1	B/W	F2.0-2.8/4-8	1/3“	600	0.75	12VDC	-	IP65	120x120x92
91897	VK-1318/WDDG2	B/W	F2.0-2.8/4-8	1/3“	600	0.75	12VDC	-	IP65	120x120x92
91896	VKC-1413/WDDG2	Colour	F2.0/2.6-5.6	1/4“	380	1.25	12VDC	-	IP65	120x120x92
91955	VKC-1327/WDDG1	Colour/BW	F1.2/3.8-9.5	1/3“	480	0.5	12VDC	-	IP65	120x120x92
91956	VKC-1327/WDDG2	Colour/BW	F1.2/3.8-9.5	1/3“	480	0.5	12VDC	-	IP65	120x120x92
92051	VKCD-1312FM/MF	Colour	F2.0/3.8	1/3“	380	0.3	12VDC	-	IP65	140x140x111
92052	VKCD-1312SM/MF	Colour	F2.0/3.8	1/3“	380	0.3	12VDC	-	IP65	142.4x142.4x100
92053	VKCD-1313FM/MF	Colour	F2.0/3.8	1/3“	550	0.35	12VDC	-	IP65	140x140x111
92054	VKCD-1313SM/MF	Colour	F2.0/3.8	1/3“	550	0.35	12VDC	-	IP65	142.4x142.4x100
92049	VKCD-1311SM/VF	Colour	F1.5/4-9	1/3“	550	0.3	12VDC	-	IP65	142.4x142.4x100
92048	VKCD-1311FM/VF	Colour	F1.5/4-9	1/3“	550	0.3	12VDC	-	IP65	140x140x111
92055	VKCD-1314FM/VF	Colour	F1.5/4-9	1/3“	480	0.56	12VDC	-	IP65	140x140x111
92056	VKCD-1314SM/VF	Colour	F1.5/4-9	1/3“	480	0.56	12VDC	-	IP65	142.4x142.4x100
92063	VKCD-149	Colour	F1.4/3.9-62.4	1/4”	480	1.25	12VDC/24VAC	-	IP65	160x160x126.5
92057	VKCD-1315FM/VF	Colour/BW	F1.2/3.8-9.5	1/3“	480	0.56	12VDC	-	IP65	140x140x111
92058	VKCD-1315SM/VF	Colour/BW	F1.2/3.8-9.5	1/3“	480	0.56	12VDC	-	IP65	142.4x142.4x100
92096	VKCD-1317FMH/VF	Colour/BW	F1.2/3.8-9.5	1/3“	550	0.8	12VDC/24VAC	-	IP65	140x140x111
92097	VKCD-1317SMH/VF	Colour/BW	F1.2/3.8-9.5	1/3“	550	0.8	12VDC/24VAC	-	IP65	142.4x142.4x100
92093	VKCD-1316/IR	Colour/BW	F1.2/3.8-9.5	1/3“	540	0.5	12VDC/24VAC	√	IP66	145x145x100
92105	VKCD-1318/IR	Colour/BW	F1.2/3.8-9.5	1/3“	540	0.5	12VDC/24VAC	√	IP66	143x143x100

*0,5Lux (0,32Lux) at colour mode ; 0,24Lux (0,15Lux) at BW-mode at bei F1,2 (AGC-Turbo), Measurement result

Accessories

Art-No.	Type	Description
40073	H02625M	F2.5/2.6mm Board Camera Lens, 1/3“, M12X0.5mm
92099	IRCAM/WB1	Wall Mount Kit for VKCD-1316/IR and VKCD-1318/IR
74097	EDMC/CWB	Wall or Pendant Mount Kit for EDMC Dome Camera and WDDG-1 Series
74126	VDOME/WB1	Wall Mount Kit for Vandalism Resistant Dome Cameras SM/VF Series
71664	WDDG2/H12	Low Voltage Heater Kit 12V/8W for WDDG-2 housing
88149	3/4“ - M25X1.5	Thread Adapter 3/4“ - Conduit Connection M25x1.5mm for Dome Surface Mount Housing
70448	VT-PS12DC-6	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, w. Open Ends
70447	VT-PS12DC-5	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, with DC Plug

HIGHLIGHTS

NT Series

eneo NTD-6101/18

1/4“ Day&Night Network Dome Camera with 18x Zoom Lens, 12VDC, 480TVL

- 1/4“ Super HAD ExView CCD Sensor
- Zoom Lens: F1.4/4.1-73.8mm / 10x Digital Zoom
- Sensitivity of 0.5Lux at F1.2 (Colour)
- High Speed Shutter Control (MES/ESC)
- On-screen Menu Control / Camera Title Display
- 240 Presets
- MPEG-4 Compression
- Image Frame Rate: Up to 25 Fr./Sec. (720x576 Px.)
- Viewer for Monitoring, Recording and Configuration
- Pre and Post Event Recording (in Client PC)
- Integrated Web Server: 10Base-T/100Base-TX
- E-mail Notification in Case of an Alarm

Art-No.: 93151

eneo NTD-4101

1/4“ Network Colour Mini Dome Camera
with 10x Zoom Lens, 12VDC, 430TVL

- 1/4“ Vandal Resistant IP PTZ Colour Dome Camera
- Zoom Lens: F1.6/3.15-31.5mm / 10x Digital Zoom
- Sensitivity of 0.85Lux at F1.2
- High Speed Shutter Control (MES/ESC)
- On-screen Menu Control / Camera Title Display
- Horizontal Speed Range up to 120°/sec.
- MPEG-4 Compression
- Image Frame Rate: Up to 25 Fr./Sec. (720x576 Px.)
- Viewer for Monitoring, Recording and Configuration
- Pre and Post Event Recording (in Client PC)
- Integrated Web Server: 10Base-T/100Base-TX
- E-mail Notification in Case of an Alarm

Art-No.: 93155

eneo NTD-2101

1/3“ Vandalism-proof Network Day & Night Colour Camera, 540TVL, 12VDC

Art-No.: 93154

eneo NT-Manager

Control, recording and configuration software for NT Series network products

included in delivery

eneo Network Domes NT-Series

NT-Manager Software

Control, recording and configuration software for NT Series network products

- Simultaneous connection of up to four video sources
- Efficient, stable and fast network connection
- Access to device setup and configuration
- Full PTZ functionality (if supported by the video source)
- Event- and time-controlled recording
- Time-controlled image search with event display
- Bidirectional audio
- Intuitive user interface
- Bundled with all NT Series products

Proven Quality

The NT Series Network Dome Cameras are IP versions of the successful and proven Fastrax, Minitrax and Mini-dome Series. The compact hi-tech camera systems use efficient MPEG-4 compression to transmit at rates up to 25 frames per second. Of course, the NT Series Dome Cameras also come bundled with NT-Manager, which is described in detail on Page 31 of this catalogue.

Overview eneo Network Domes NT-Series

Art-No.	Type	Day/Night	Lens mm	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Zoom Range opt./dig.	Window Blanking	Bubble
93154	NTD-2101	√	F1.5/4-9	1/3”	540	0,3	-	√	3,9”
93155	NTD-4101	-	F1.6/3.15-31.5	1/4”	430	0,85	10/10	-	3,9”
93151	NTD-6101/18	√	F1.4/4.1-73.8	1/4”	480	0,5 (Colour)	18/12	√	4,9”

Network-Interface: 10Base-T/100Base-TX

Overview Fixed Focal Length Lenses

Art-No.	Type	CCD Format	Iris	Focal Length	Iris Range	Angle of View (horizontal)	NFS*	MP**	Mount	Screw-in Depth	Dimensions (LxDxR) mm
47162	F0212M-NFS	1/3“	manual	2.2	F1.2-C	118.6°	√	-	CS	5.5	38x37
43134	F0216M	1/3“	manual	2.6	F1.6-C	93.8°	-	-	CS	5.5	34.7x34.5
47156	F0312M-NFS	1/3“	manual	2.8	F1.2-C	93.2°	√	-	CS	4.2	34.7x37
43135	F0412M	1/3“	manual	4	F1.2-C	64°	-	-	CS	5.1	33x32
47157	F0412M-NFS	1/3“	manual	4	F1.2-C	65.6°	√	-	CS	4.2	34.7x37
47158	F0612M-NFS	1/3“	manual	6	F1.2-C	46.5°	√	-	CS	4.2	34.7x37
43136	F0812M	1/3“	manual	8	F1.2-C	34.7°	-	-	CS	5.8	33x32
47159	F0812M-NFS	1/3“	manual	8	F1.2-C	34.5°	√	-	CS	4.2	34.7x37
43071	A0314M1	1/2“	manual	3.5	F1.4-C	103.6°	-	-	C	8.8	32x35
43069	A0414M1	1/2“	manual	4.5	F1.4-C	79°	-	-	C	8.2	32x35
43068	A0614M1	1/2“	manual	6	F1.4-C	57.3°	-	-	C	8.5	34.5x35
43067	A1214M1	1/2“	manual	12	F1.4-C	30°	-	-	C	6.8	26x35
43011	B0813M6	2/3“	manual	8	F1.3-C	58.8°	-	-	C	6.0	30x37
43095	B1614M4	2/3“	manual	16	F1.4-C	22.3°	-	-	C	8.6	26x35
43015	C2514M	1“	manual	25	F1.4-C	27°	-	-	C	6.5	29x46
43029	C5018M	1“	manual	50	F1.8-C	14.8°	-	-	C	4.2	49x44
47161	F0212NDDC-NFS	1/3“	DC	2.2	F1.2-F300	118.6°	-	-	CS	5.5	34.7x34x24.5
47147	F0312NDDC-NFS	1/3“	DC	2.8	F1.2-360	93.2°	-	-	CS	4.2	34.7x28.8x24.5
47124	F0412NDDC	1/3“	DC	4	F1.2-F125	64°	-	-	CS	5.2	33x34.5x23
47148	F0412NDDC-NFS	1/3“	DC	4	F1.2-360	65.6°	√	√	CS	4.2	34.7x28.8x24.5
47149	F0612NDDC-NFS	1/3“	DC	6	F1.2-260	46.5°	√	√	CS	4.2	34.7x28.8x24.5
47125	F0812NDDC	1/3“	DC	8	F1.2-F125	34.7°	-	-	CS	5.5	33x34.5x23
47154	F0812NDDC-NFS	1/3“	DC	8	F1.2-280	34.5°	√	√	CS	4.2	34.7x28.8x24.5
47145	F1616NDDC	1/3“	DC	16	F1.6-360	17.6°	-	-	CS	4.0	29.5x37.3x25
47128	G1214NDDC	1/2“	DC	12	F1.4-125	30.4°	-	-	CS	4.5	33x34.5x23
47131	G3618NDDC	1/2“	DC	36	F1.8-F125	10.6°	-	-	CS	3.5	36.5x42x30.5
43137	F0412NDAI	1/3“	AI	4	F1.2-F125	64°	-	-	CS	5.2	33x34.5x23
43204	F1616NDAI	1/3“	AI	16	F1.6-360	17.6°	-	-	CS	4.0	29.5x37.3x25
43105	G0216NDAI	1/2“	AI	2.6	F1.6-F360	116.5°	-	-	CS	5.0	33x34.5x23

*NFS: No Focus Shift

**MP: Suitable for megapixel cameras

Varifocal Lenses

Overview Varifocal Lenses

Art-No.	Type	CCD Format	Iris	Focal Length	Iris Range	Angle of View (horizontal)	NFS**	MP***	Mount	Screw-in Depth	Aspherical Technique	Dimensions (LxDxR) mm
43198	F02Z02M	1/3“	manual	1.8-3.6	F1.6-C	144.2°-79.4°	-	-	CS	3.5	–	51x37.5
43256	F03Z0310-1M	1/3“	manual	2.9-8.2	F1.0-16(C)	98.3°-35.2°	-	-	CS	4.7	–	44.3x36.5
43128	F03Z02M	1/3“	manual	2.8-6	F1.2-C	88.7°-44.2°	-	-	CS	4.0	√	60x43
43212	F03Z04M	1/3“	manual	2.8-12	F1.4-C	97.4°-24.1°	-	-	CS	4.2	√	59.2x44
43219	F03Z2.710M	1/3“	manual	3-8	F1.0-C	91°-36°	-	-	CS	5.0	√	42x36
43205	F04Z03M	1/3“	manual	3.5-8	F1.4-C	73.8°-35°	-	-	CS	4.4	–	48.1x39.4
43162	F04Z02M	1/3“	manual	3.5-8	F1.4-C	77.6°-35.4°	-	-	CS	3.5	–	43.5x34
43158	F05Z08M	1/3“	manual	5-40	F1.6-C	53.6°-6.5°	-	-	CS	4.0	–	72.5x42
43195	F05Z10M	1/3“	manual	5-50	F1.4-C	53.4°-5.3°	-	√	CS	4.0	√	59.2x41
43166	F05Z15M	1/3“	manual	5.5-82.5	F1.8-C	50.7°-3.1°	-	-	CS	4.0	–	82.5x48
43131	G04Z02M	1/2“	manual	4-10	F1.8-C	94.8°-37.3°	-	-	CS	4.5	–	49x38
47261	A06Z02M	1/2“	manual	6-12	F1.4-C	56.1°-29.5°	-	-	C	7.0	–	54.5x40
43252	G04Z03M-NFS	1/2“	manual	4.5-12.5	F1.2-C	83.7°-30.1°	√	-	CS	5.4	√	43.5x33.5
43199	F02Z02NDDC	1/3“	DC	1.8-3.6	F1.6-360	144.2°-79.4°	-	-	CS	3.5	–	51x37.4x23.3
43129	F03Z02NDDC	1/3“	DC	2.8-6	F1.2-64	88.7°-44.2°	-	-	CS	4.0	√	60x43x37.5
43255	F03Z0310-1NDDC	1/3“	DC	2.9-8.2	F1.0-F240	98.3°-35.2°	-	-	CS	4.7	-	44.3x40.6
43213	F03Z04NDDC	1/3“	DC	2.8-12	F1.4-260	97.4°-24.1°	-	-	CS	4.2	√	59.2x40x26.2
43222	F03Z2.710NDDC	1/3“	DC	3-8	F1.0-360	91°-36°	-	-	CS	5.0	√	42x33x25.5
43163	F04Z02NDDC	1/3“	DC	3.5-8	F1.4-130	77.6°-35.4°	-	-	CS	3.5	–	43.5x33.5x23.3
43214	F04Z0310NDDC	1/3“	DC	3.5-10.5	F1.0-260	81.6°-27.2°	-	-	CS	7.4*	–	48.8xs38.5x26.5
43159	F05Z08NDDC	1/3“	DC	5-40	F1.6-125	53.6°-6.5°	-	-	CS	4.0	–	72.5x42x27
43196	F05Z10NDDC	1/3“	DC	5-50	F1.4-64	53.4°-5.3°	-	-	CS	4.0	√	59.2x41x33.2
43242	F05Z1013NDDC	1/3“	DC	5-50	F1.3/F1.9-160	53.5°-4.2°	-	-	CS	4.0	–	55.5x39.5x31.6
43224	F05Z20NDDC	1/3“	DC	5-100	F1.6-250	52.7°-2.8°	-	-	CS	4.0	–	93x48x31
43254	A04Z02NDDC-MP	1/2“	DC	4.0-8.0	F1.4-F260	90.4°-47°	-	√	C	5.4	√	48.8x43
43133	G04Z02NDDC	1/2“	DC	4-10	F1.8-125	94.8°-37.3°	-	-	CS	4.5	–	49x37x26
43251	G04Z03NDDC-NFS	1/2“	DC	4.5-12.5	F1.2-260	83.7°-30.1°	√	-	CS	5.4	√	43.5x33.5x23.3
43247	G20Z05NDDC	1/2“	DC	20-100	F1.6-270	18°-3.6°	-	-	CS	4.0	√	110x43x37.8
43156	F03Z02NDAI	1/3“	AI	2.8-6	F1.2-64	88.7°-44.2°	-	-	CS	4.0	√	60x43x37.5
43207	F04Z03NDAI	1/3“	AI	3.5-8	F1.4-360	73.8°-35°	-	-	CS	4.4	–	48.1x36x26
43164	F04Z02NDAI	1/3“	AI	3.5-8	F1.4-130	77.6°-35.4°	-	-	CS	3.5	–	43.5x33.5x23.3
43197	F05Z10NDAI	1/3“	AI	5-50	F1.4-64	53.4°-5.3°	-	-	CS	4.0	√	59.2x41x37

* at BW Mode

**NFS: No Focus Shift

***MP: Suitable for megapixel cameras

Overview Zoom Lenses

Art-No.	Type	CCD Format	Iris	Focal Length	Iris Range	Angle of View (horizontal)	Zoom-factor	Mount	Screw-in Depth	Potentio-meter	Dimensions (LxDxR) mm
40860	B12Z06MG-1K	2/3“	manual	12.5-75	F1.6-C	38.7°-6.6°	6:1	C	4.0	–	100x55
47419	F06Z08NDDC	1/3“	DC	6-48	F1.2-250	44.3°-5.8°	8:1	CS	4.2	–	92x72x64
47421	F06Z08NDDCPO	1/3“	DC	6-48	F1.2-250	44.3°-5.8°	8:1	CS	4.2	√	92x72x64
41114	F06Z10NDDC-1	1/3“	DC	6-60	F1.4-190	43.4°-4.5°	10:1	CS	4.0	–	107.6x70x70
40231	F05Z30NDDC	1/3“	DC	5.5-165	F1.8-360	47.6°-1.7°	30:1	CS	4.0	–	167x80x87
40232	F05Z30NDDCPO	1/3“	DC	5.5-165	F1.8-360	47.6°-1.7°	30:1	CS	4.0	√	167x80x87
47422	A08Z08NDDC	1/2“	DC	8-64	F1.6-250	44°-5.8°	8:1	C	4.0	–	92x72x64
47423	A08Z08NDDCPO	1/2“	DC	8-64	F1.6-250	44°-5.8°	8:1	C	4.0	√	92x72x64
41113	A08Z10NDDC-1	1/2“	DC	8-80	F1.8-F230	44.1°-4.6°	10:1	C	4.0	–	107.6x70x70
40225	A08Z15NDDC	1/2“	DC	8-120	F1.8-360	43.6°-3°	15:1	C	4.0	–	128x79x70
40226	A08Z15NDDCPO	1/2“	DC	8-120	F1.8-360	43.6°-3°	15:1	C	4.0	√	128x79x70
40228	A08Z06NDDC	1/2“	DC	8.5-51	F1.2-360	40.8°-7.1°	6:1	C	8.0	–	100x79x63
40229	A08Z06NDDCPO	1/2“	DC	8.5-51	F1.2-360	40.8°-7.1°	6:1	C	8.0	√	100x79x63
40235	A10Z30NDAI	1/2“	AI	10-300	F1.5-560	35.5°-1.25°	30:1	C	4.0	–	252x125x144.5
40236	A10Z30NDAIPO	1/2“	AI	10-300	F1.5-560	35.5°-1.25°	30:1	C	4.0	√	252x125x144.5

Special Lenses

Overview Day/Night Lenses*

Art-No.	Typ	CCD Format	Iris	Iris Range	Focal Length	Angle of View (horizontal)	MP**	Mount	Screw-in Depth	Dimensions (LxDxR) mm
47162	F0212M-NFS	1/3“	manual	5.5	F1.2-C	118.6°	-	CS	4.2	38x37∅
47156	F0312M-NFS	1/3“	manual	2.8	F1.2-C	93.2°	-	CS	4.2	34.7x37∅
47157	F0412M-NFS	1/3“	manual	4	F1.2-C	65.6°	-	CS	4.2	34.7x37∅
47158	F0612M-NFS	1/3“	manual	6	F1.2-C	46.5°	-	CS	4.2	34.7x37∅
47159	F0812M-NFS	1/3“	manual	8	F1.2-C	34.5°	-	CS	4.2	34.7x37∅
43252	G04Z03M-NFS	1/2“	manual	4.5-12.5	F1.2-C	83.7°-30.1°	-	CS	5.4	43.5x33.5
47161	F0212NDDC-NFS	1/3“	DC	2.2	F1.2-300	118.6°	-	CS	5.5	34.7x34x24.5
47147	F0312NDDC-NFS	1/3“	DC	2.8	F1.2-250	93.2°	-	CS	4.2	34.7x34x24.5
47148	F0412NDDC-NFS	1/3“	DC	4	F1.2-250	65.6°	-	CS	4.2	34.7x34x24.5
47149	F0612NDDC-NFS	1/3“	DC	6	F1.2-250	46.5°	-	CS	4.2	34.7x34x24.5
47154	F0812NDDC-NFS	1/3“	DC	8	F1.2-250	34.5°	-	CS	4.2	34.7x34x24.5
43238	F03Z2.710DC-NFS	1/3“	DC	3-8	F1.0-240	91°-36°	-	CS	5.0	42x33x25.5
43237	F03Z04NDDC-NFS	1/3“	DC	2.8-11	F1.4-260	97.4°-26.2°	-	CS	4.2	59.2x40x26.2
43251	G04Z03NDDC-NFS	1/2“	DC	4.5-12.5	F1.2-260	83.7°-30.1°	-	CS	5.4	43.5x33.5x23.3
43249	F07Z07NDDC-NFS	1/3”	DC	7.5-50	F1.3-240	36.6°-5.64°	-	CS	4.4	55.2x38x27.2
43248	A04Z12NDDC-NFS	1/2“	DC	4-12	F1.4-250	93.7°-68.9°	-	C	8.6	53.8x40x31
43239	A10Z04NDDC-NFS	1/2“	DC	10-40	F1.4-250	37.5°-9.2°	-	C	4.2	62x43x31.1

*All lenses have NFS (No Focus Shift)
**MP: Suitable for megapixel cameras

Overview Lenses with IR Cut Filter

Art-No.	Type	CCD Format	Iris Range	Focal Length	Angle of View (horizontal)	Zoom-factor	Mount	Screw-in Depth	Potentio-meter	Dimensions (LxDxR) mm
43192	G04Z02NDDC/IRSF	1/2“	4-10	F1.8-125	94.8°-37.3°	–	CS	4.5	–	49x37x26
43193	A06Z02NDDC/IRSF	1/2”	6-13	F1.8-180	60.3°-28.5°	–	C	9.3	–	45.1x39.5x26
40233	F06Z10NDDCPOIRS	1/3“	6-60	F1.6-360	44.2°-4.6°	10:1	CS	4.0	√	116.5x79x69
40223	A08Z15NDDCPOIRS	1/2“	8-120	F1.8-360	43.6°-3°	15:1	C	4.0	√	128x79x70

Overview Pinhole Lenses

Art-No.	Type	CCD Format	Iris	Focal Length	Iris Range	Angle of View (horizontal)	Mount	Screw-in Depth	Dimensions (LxDxR) mm
43356	A0424SNDAI	1/2“	AI	6.0	3.8	80.2°	C	5.2	37x41.5∅

High-quality special lenses are needed in the image processing, quality assurance, production monitoring, process automation, metrology and identification fields. The key differentiations from normal lenses are:

- Low distortion
- High resolution
- Improved image properties for flair and contrast characteristics
- Compact design
- Fixing screws on the aperture and focus rings to ensure trouble-free usage even in the presence of vibrations and shaking.

The lenses are split into two categories to draw a simple distinction:

1. High-Resolution Lenses
For use on high-resolution cameras (> 400,000 pixels)
2. Megapixel Lenses
For use on super high-resol. cameras (> 1.3 million pixels)

Minimum Focusing Distance
The definition of the minimum focusing distance is the distance from the object to the tip of the lens, for which a focus ring can be used to make the object sharp ("close" setting).
Adapter rings (such as the Macro-Tubes) can be fitted to reduce the minimum focusing distance even further, to a limited extent.

Overview Lenses for Imaging

Art-No.	Type	CCD Format	Iris Range	Focal Length	Angle of View (horizontal)	Mount	Distorsion %	MOD in m	Locking Knob for Iris/Focus	Resolution	Dimensions (LxD) mm
42005	B2514MV-MP	2/3"	25mm	F1.4-16	19.6°	C	-0.032	0.2	√	Megapixel	33x39.5
42008	B5028MV-MP	2/3"	50mm	F2.8-22	9.6°	C	-0.024	0.2	√	Megapixel	34x55
42091	E08Z10MA	1/3"	8.5-90mm	F2.5	31.3°-3.2°	C	k.A.	0.15	-	High Res.	134x60
42012	B45Z03MV-MP	2/3"	45-160mm	F4.5-C	11.8°-2.78°	C	0.02*/1.78**	89.9	√	High Res.	79.5x36
47144	B18Z06MA1	2/3"	18-108mm	F2.5	34°-6°	C	-	0.1	-	High Res.	172x62

* at 2/3" and 0.3x magnification
** at 2/3" and 1.0x magnification

Lens Accessories

Lens Accessories

Art-No.	Type	Description
41233	1.5X-EX/CS	Focus Extender 1,5x, CS Mount
41231	2X-EX/C	Focal Extender 2x, C Mount
42160	EXT-TUB	Set of Macro Tubes, 0.5/1/5/10/20/40mm Length, C/CS Mount
41715	LD-16N3	Lens Dummy, C Mount
43106	C/CS RING-AL	Adapter Ring, C/CS Mount, Aluminium anodized
43221	N-PLUG/L MINI	4-pin AI/DC Mount Plug

TOP DESIGN

eneo CANDID

eneo VHP-1

Candid Junior I Weatherproof Housing with Wall Mount WD-21

- Camera Weatherproof Housing (32x32mm Brd. Cameras)
- For Wall and Ceiling Mounting
- For Cameras with upto 24 V Power Supply
- Insulated Camera Mounting
- Cable Entry: M12x1.5
- Index of Protection: IP66/67
- Wall Bracket Included

Art-No.: 79498

eneo VHP-2

Candid Junior II weatherproof Housing with integrated Wall Mount, Folding Tube

- Camera Weatherproof Housing (32x32mm Brd. Cameras)
- For Universal Applications
- For Cameras with upto 24 V Power Supply
- Insulated Camera Mounting
- Protected Pan and Tilt Fixing Mechanism
- Index of Protection: IP 67

Art-No.: 79576

eneo VHU-165/24V

Candid weatherproof Housing (165mm), with Heater and Thermostat, 24VAC

Art-No.: 79549

eneo VHU-165/12V

Candid weatherproof Housing (165mm), with Heater and Thermostat, 12VDC

Art-No.: 79466

eneo VHU-260/230V

Candid weatherproof Housing (260mm), with Heater and Thermostat, 230VAC

Art-No.: 79493

eneo CANDID Housings

eneo VHU-260/24V

Candid weatherproof Housing (260mm), with Heater and Thermostat, 24VAC

Art-No.: 79552

eneo VHU-260/12V

Candid weatherproof Housing (260mm), with Heater and Thermostat, 12VDC

Art-No.: 79467

eneo VHU/DP-165

Candid dustproof Housing (165mm)

Art-No.: 79481

eneo VHU/DP-260

Candid dustproof Housing (260mm)

Art-No.: 79482

Overview eneo CANDID Housings

Art-No.	Type	Supply Voltage	Protection Rating	Heater	Screw Terminal/ Thermostat	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm	Weight kg
79498	VHP-1	–	IP66/67	–	–	For cameras up to 32x32	55x55x132	0.25
79576	VHP-2	–	IP67	–	–	For cameras up to 32x32	55x55x204	0.45
79549	VHU-165/24V	24V	IP67	√	integrated	60x60x165	101x113x420	1.2
79466	VHU-165/12V	12V	IP67	√	integrated	60x60x165	101x113x420	1.2
79493	VHU-260/230V	230VAC	IP67	√	integrated	60x60x260	101x113x515	1.4
79552	VHU-260/24V	24V	IP67	√	integrated	60x60x260	101x113x515	1.2
79467	VHU-260/12V	12V	IP67	√	integrated	60x60x260	101x113x515	1.4
79481	VHU/DP-165	–	IP54	–	–	60x60x165	90x90x400	1.2
79482	VHU/DP-260	–	IP54	–	–	60x60x260	90x90x495	1.2

Accessories

Art-No.	Type	Description
79494	VHU-NT1	Power Supply Unit for Candid Housing Series 230VAC/12VDC-14VAC(Camera/Heater)
79557	VHU-NT2	Power Supply unit for Candid Housing Series 230VAC/2x 24VAC (Camera/Heater)
79591	VHU-NT2/1	Power Transformer for Candid Dustproof Housing, 230V/24VAC
79499	VHU-AKS/12-24V	Connecting Cable Set 12VDC/24VAC/Video for Candid Housing
73146	PM-41	Pole Mount Adapter for Housing Series Candid, RAL7035

eneo VHM/ECLKA-210

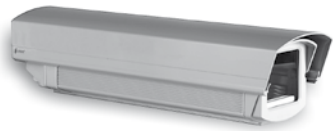
Weatherproof Housing (210mm) with Heater, Thermostat, CBD, RAL7032, 230VAC

Art-No.: 79543

eneo VHM/ECLKB-210

Weatherproof Housing (210mm) with Heater, Thermostat, CBD, RAL7032, 24VAC

Art-No.: 79555



eneo VHM/ECLKA

Weatherproof Housing (330mm) with Heater, Thermostat, CBD, RAL7032, 230VAC

Art-No.: 79404

eneo VHM/ECLKB

Weatherproof Housing (330mm) with Heater, Thermostat/CBD, RAL7032, 24VAC

Art-No.: 79428

eneo VHM/STBL-210

Weatherproof Housing (210mm) w. Heater Thermostat,Connection Brd, RAL7032,24VAC

Art-No.: 79603

eneo VHM/ECLKA-KIT1

Weatherproof Housing (330mm), Heater, Wall Bracket, Cable Cover,RAL7032,230VAC

Art-No.: 79642

eneo VHM/ECLKB-KIT1

Weatherproof Housing (330mm), Heater, Wall Bracket, Cable Cover,RAL7032,24VAC

Art-No.: 79643

eneo VHM/STLA

Weatherproof Housing (330mm) w. Heater Thermostat,Connection Brd,RAL7032,230VAC

Art-No.: 79405

eneo VHM/STLB

Weatherproof Housing (330mm) w. Heater Thermostat, Connection Brd,RAL7032,24VAC

Art-No.: 79429

eneo Medium Housings

eneo VHM/ECLA-210

Weatherproof Housing (210mm) with Heater, RAL7032, 230VAC

Art-No.: 79416

eneo VHM/ECLB-210

Weatherproof Housing (210mm) with Heater, RAL7032, 24VAC

Art-No.: 79483

eneo VHM/ECLA

Weatherproof Housing (330mm) with Heater, RAL7032, 230VAC

Art-No.: 79374

eneo VHM/ECLB

Weatherproof Housing (330mm) with Heater, RAL7032, 24VAC

Art-No.: 79397

eneo VHM/DP-ECL210

Dustproof Housing (210mm), RAL7032

Art-No.: 79583

eneo VHM/DP-ECL

Dustproof Housing (330mm), RAL7032

Art-No.: 79366

Overview eneo Medium Housings

Art-No.	Type	Supply Voltage	Protection Rating	Heater	Plugable cable connection	Screw Terminal/ Thermostat	Wall bracket and cable cover	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm
79543	VHM/ECLKA-210	230VAC	IP66	√	–	integrated	-	76.5x90.8x210	125x133x353
79555	VHM/ECLKB-210	24V	IP66	√	–	integrated	-	76.5x90.8x210	125x133x353
79404	VHM/ECLKA	230VAC	IP66	√	–	integrated	-	76.5x90.8x330	125x133x473
79428	VHM/ECLKB	24V	IP66	√	–	integrated	-	76.5x90.8x330	125x133x473
79603	VHM/STLB-210	24VAC	IP66	√	internal	integrated	-	76.5x90.8x330	125x133x353
79642	VHM/ECLKA-KIT1	230VAC	IP66	√	internal	integrated	√	76.5x90.8x330	125x133x473
79643	VHM/ECLKB-KIT1	24VAC	IP66	√	internal	integrated	√	76.5x90.8x330	125x133x473
79405	VHM/STLA	230VAC	IP66	√	internal	integrated	-	76.5x90.8x330	125x133x473
79429	VHM/STLB	24V	IP66	√	internal	integrated	-	76.5x90.8x330	125x133x473
79416	VHM/ECLA-210	230VAC	IP66	√	–	Accessorie	-	76.5x90.8x210	125x133x353
79483	VHM/ECLB-210	24V	IP66	√	–	Accessorie	-	76.5x90.8x210	125x133x353
79374	VHM/ECLA	230VAC	IP66	√	–	Accessorie	-	76.5x90.8x330	125x133x473
79397	VHM/ECLB	24V	IP66	√	–	Accessorie	-	76.5x90.8x330	125x133x473
79583	VHM/DP-ECL210	–	–	–	–	Accessorie	-	76.5x90.8x210	113x110x335
79366	VHM/DP-ECL	–	–	–	–	Accessorie	-	76.5x90.8x330	113x110x455

Accessories

Art-No.	Type	Description
79623	VHM/PC-1	Plug-in shield for VHM/EC&ST Housing Series, 330mm
73064	WD-16/MK	Wall Mount with Swivel Head for VHM Weatherproof Housings, RAL7032
79364	NE-112	Power Supply Unit 230VAC/12VDC (600mA) for VHM Housing, Regulated
79423	NE-112/2	Power Supply Unit 230VAC/12VDC (600mA), Regulated, 24VAC (1000mA) f. VHM Housing
79491	NE-112/AC24V	Power Supply Unit 230VAC/24VAC (600mA) for VHM Housing
79612	VHM/KVS2	Cable Connection Board w. Thermostat and Fuse for VHM Housing, „EC“ Series
79627	VHM/KV2	Cable Connection Board with Thermostat for VHM Housing, „EC“ Series
72501	PTB-1	Protocol Translator Board, 12VDC for Build-in VHM/ST Housing Series
71301	VHM/H220	VHM Window Heater 110-265VAC (PTC Element)
71601	VHM/H24	VHM Window Heater 12-30V (PTC Element)
71602	VHM/H24WID	VHM Resistor Low Voltage Heater 24V/6W, interchangeable to 12V
79281	VHL-VHB-VHM/TH2	Thermostat Switch for VHL/VHB/VHM Housing
79615	VHM/Z KIT	Modification Kit for VHM-EC Housing Series to Plugable Central Connection

eneo System Housings

eneo VHM/ZLKCB

Weatherproof Housing (330), 24V Heater, KV-1, Internal Pre-wiring, RAL7032

- Camera Weatherproof Housing 330mm w. Screen Heater
- Fold-down Housing Body
- 4 Levels of Camera Height Adjustment
- Insulated Camera Mounting
- External 30-pin Plug Connector
- Cable Connection with Metal Gland M25x1.5mm
- Pre-wired for 24VAC Supply via VPT-41/VPT-42
- With Screw Terminal Board VHM/KV1
- Prepared for easy Camera and Lens Assembly
- Viewing Screen with „Clear-Shield“ Technology
- Housing Surface: RAL7032
- Option: P/T Head Connection Cables

Art-No.: 79619

VHM Housings with central plug

Our successful VHM Weatherproof Housings are now also available in a model with a central plug and internal precabling. The 330mm VHM/ZLKCB is set up to make installation of 24VAC cameras with a zoom lens as simple as possible, and it has a screen heater. 24V operation over a pan/tilt head from the VPT-41/VPT-42 series is also preconfigured. A pan/tilt head connection cable is available as an option.

As with all VHM series housing, the viewing screen of this model is also coated with “Clear Shield” technology that prevents corrosion and increases the screen recycling cycles. It is also UV-resistant, colour-neutral and fully light transmissive (100% light transmission).

eneo VHM/ZLA

Weatherproof Housing (330), Central Plug with 230V Heater, RAL7032

Art-No.: 79607

eneo VHM/ZLB

Weatherproof Housing (330), Central Plug with 24V Heater, RAL7032

Art-No.: 79608

Overview eneo System Housings

Art-No.	Type	Supply Voltage	Protection Rating	Heater	Plugable cable connection	Screw Terminal/ Thermostat	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxBxT) mm
79607	VHM/ZLA	230VAC	IP66	√	external	Accessorie	76.5x90.8x330	125x133x473
79608	VHM/ZLB	24V	IP66	√	external	Accessorie	76.5x90.8x330	125x133x473
79619	VHM/ZLKCB	24V	IP66	√	external	included	76.5x90.8x330	125x133x473

Accessories

Art-No.	Type	Description
79615	VHM/Z KIT	Modification Kit for VHM-EC Housing Series to Plugable Central Connection
79617	VHM/ZB-VPT41	Connection Cable VHM/ZLB to VPT-41, 0.35m
79618	VHM/ZB-VPT42	Connection Cable VHM/ZLB to VPT-42 and VPT-551, 0.35m
79609	VHM/KV1	Cable Connection Board with Thermostat for VHM/Z Housing
73064	WD-16/MK	Wall Mount with Swivel Head for VHM Weatherproof Housings, RAL7032
79364	NE-112	Power Supply Unit 230VAC/12VDC (600mA) for VHM Housing, Regulated
79423	NE-112/2	Power Supply Unit 230VAC/12VDC (600mA), Regulated, 24VAC (1000mA) f. VHM Housing
79491	NE-112/AC24V	Power Supply Unit 230VAC/24VAC (600mA) for VHM Housing
87404	MCAB-1	Camera/PT Head Connecting Cable f. Video Power, RS-Control or Network, 1 Metre

eneo ESH-20

Stainless Steel Housing AISI 316, 320mm Water Cooled, IP68, 2x M16x1.5

- Stainless Steel Housing according to EN10088
- Integrated Air Barrier for Window Clearing
- Air and Liquid Hose Connections
- Internal Dimensions: 85x85x320mm
- Window Diameter: 96mm
- 2 Cable Entries M16x1.5mm
- Polished Surface / Protection Rating: IP68
- Envir. Temperature upto 400°C at 7.5lt. Water Flow
- Option: Wall bracket/Power Supplies/IR Filters
- Option: Filter Holder/Special Windows (upto 900°C)
- Recommended Connection Cable: MCAB-1, #87404

Art-No.: 79625

Sunshield not included

eneo ESH-10

Stainless Steel Weatherproof Housing AISI 316, IP68, 2x M16x1.5

- Stainless Steel Housing according to EN10088
- Internal Dimensions: 85x85x320mm
- Window Diameter: 90mm
- 2 Cable Entries M16x1.5mm
- Housing Surface: Polished
- Index of Protection: IP68
- Temperature Range -20°C to +50°C, depend on Camera
- Option: Wall bracket/Sunshield/Heaters/PSU's
- Recommended Connection Cable: MCAB-1, #87404

Art-No.: 79628

Overview eneo Stainless Steel Housings

Art-No.	Type	Supply Voltage	Protection Rating	Heater/ PSU´s	Connection Distributor	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm	Weight kg
79625	ESH-20	Accessories	IP68	Option	integrated	80x80x320	150x146x585	5.3
79628	ESH-10	Accessories	IP68	Option	integrated	80x80x320	150x146x485	4.9

Accessories

Art-No.	Type	Description
79629	ESH/WB	Wall Mount with Swivel Head for ESH Housing Series, AISI 316
79655	ESH/PM	Pole Mount Kit for ESH/WB, AISI 316, ESH Housing Series
79656	ESH/CB	Wall Mount Bracket with Swivel Head for ESH Housing Series, AISI 316
79631	ESH/SH	Sunshield for ESH-10 Stainless Steel Housing, AISI 316L
79632	ESH/AIR FILTER	Air Filter for ESH-20 Stainless Steel Housing
79633	ESH/HT12-24	PTC Window Heater 12-24V for ESH-10 Housing Series w. Thermostat
79634	ESH/HT100-240	PTC Window Heater 100-240VAC for ESH-10 Housing Series w. Thermostat
79635	ESH/NE12VDC	Power Supply Unit 230V0/12VDC (400mA) for ESH Housing Series
79636	ESH/NE24VAC	Power Supply Unit 230V/24VAC (400mA) for ESH Housing Series

eneo Stainless Steel Housings for the Toughest Ambient Conditions

The AISI 316L Polished Stainless Steel Housing of the new eneo ESG series are ideal for the toughest ambient conditions, such as in industrial plants. The housings are protected compliant with the highest class: IP68 stands for full protection against dust and submersion in water. They can be used in the -20° to +50°C temperature range and are ideal for camera installations sized up to 320 X 80mm with a maximum height of 80mm. Numerous accessories are available as optional extras: wall mount, heaters, sunshield, power packs, infrared filters, special window screens and air filters. Integral air barriers on the ESH-20 ensure that the front glass is always kept clear and not covered by dust and dirt.

HIGHLIGHTS

eneo Economy Housings

eneo EHL-W/ECLKA

Weatherproof Housing (300mm) w. Heater, Thermostat, Wall Bracket, RAL9002,230VAC

- Camera Weatherprotection / Integrated Sunshield
- Fold-down Aluminium Housing Body
- UV Resistant ABS Plastic Front and Back Part
- 3mm Glass Front Window
- 300mm Body Length
- Insulated Camera Mounting
- 2 Cable Entry Glands M16x1.5mm
- 230V Window Heater Included
- Protection Rating IP66 / Surface RAL9002
- Wall Bracket with Swivel Head Included
- Option: PSU 12/24V, Blower Kit, Camera Support Kit
- Option: Weatherproof RJ-45 IP Connector

Art-No.: 79653

eneo EHL-W/ECLKB

Weatherproof Housing (300mm) w. Heater, Thermostat, Wall Bracket, RAL9002,12/24V

- Camera Weatherprotection / Integrated Sunshield
- Fold-down Aluminium Housing Body
- UV Resistant ABS Plastic Front and Back Part
- 3mm Glass Front Window
- 300mm Body Length
- Insulated Camera Mounting
- 2 Cable Entry Glands M16x1.5mm
- 12-24V Window Heater Included
- Protection Rating IP66 / Surface RAL9002
- Wall Bracket with Swivel Head Included
- Option: Blower Kit, Camera Support Kit
- Option: Weatherproof RJ-45 IP Connector

Art-No.: 79654

EHL-W: Weatherproof Housings in an Innovative Design

EHL Weatherprof Housings set new standards in the professional camera housing sector with their innovative design and advanced technology – and this comes at excellent value for money.

The weather-resistant aluminium housings have the IP66 protection rating. This is ensured, for instance, by the two M16 cable entry glands as well as the machined and therefore precision-glued silicon seals on the front and rear. The sturdy design and high aluminium quality further guarantee protection against vandalism.

The aluminium housing body has an integral sunshield. The front and rear are manufactured from UV-resistant plastic. The shipping pakkage includes a screen heater and thermostat as well as a wall bracket designed especially for the housing.
The front window is made from 3mm-thick glass, which guarantees fog-free vision and clear pictures without any vignetting even when wide-angle lenses are used. The fold-down mechanism also gives easy access to the camera saddle mounting/locking system, which enormously simplifies installation and maintenance. An extensive accessories range rounds off the overall image of this new housing series.

eneo VHK-W/ECKA

Weatherproof Housing (270mm) w. Heater Thermostat, Wallbracket, RAL9002, 230VAC

Art-No.: 79559

eneo VHK-DP/EC

Dustproof Housing (270mm) with Wallbracket, RAL9002

Art-No.: 79558

eneo VHK-W/STKA

Weatherproof Housing (270mm) w. Heater Thermostat, Wallbracket, RAL9002, 230VAC

Art-No.: 79564

eneo VHK-WWA

VHK housing 270m with Sunshield, Heater 230VAC, Wallbracket, RAL9002

Art-No.: 79597

eneo VTL-W/N2

Weatherproof Housing (300mm) with Heater/Thermostat, 230VAC (Wall bracket not included)

Art-No.: 79484

eneo VTL-D/N2

Dustproof Housing (300mm) with Ceiling Mount

Art-No.: 79485

eneo VTL-WWA

Weatherproof Housing (300mm) with Heater Thermostat, Wallbracket, RAL9002, 230VAC

Art-No.: 79488

eneo VTL-WWD

Weatherproof Housing (300mm) RAL9002, Wallbracket, Thermostat, Heater 12-24V

Art-No.: 79644

eneo VTL-DPW

Dustproof Housing (300mm) with Wallbracket, RAL9002

Art-No.: 79489

eneo Economy Housings

Overview eneo Economy Housings

Art-No.	Type	Supply Voltage	Protection Rating	Hidden Cable Management	Heater	Screw Terminal/ Thermostat	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm	Weight kg
79653	EHL-W/ECLKA	100~240V	IP66	-	√	integrated	75x85x252	124x145x445	2.0**
79654	EHL-W/ECLKB	12~24V	IP66	-	√	integrated	75x85x252	124x145x445	2.0**
79559	VHK-W/ECKA	230VAC	IP66	–	√	integrated	75x75x270	135x127x410	2
79558	VHK-DP/EC	230VAC	IP66	–	–	integrated*	75x75x270	115x120x360	1.2
79564	VHK-W/STKA	230VAC	IP66	√	√	integrated	75x75x270	135x127x424	2
79597	VHK-WWA	230VAC	IP66	√	√	integrated	75x75x270	135x127x424	2
79484	VTL-W/N2	230VAC	IP66	–	√	integrated	86x105x300	131x131x395	2.5
79485	VTL-D/N2	–	IP66	–	–	integrated*	86x105x300	120x129x344	2,4
79488	VTL-WWA	230VAC	IP66	√	√	integrated	86x105x300	120x131x445	4
79644	VTL-WWD	12-24V	IP66	√	√	integrated	86x105x300	120x131x445	4
79489	VTL-DPW	–	IP66	√	–	integrated*	86x105x300	120x129x422	3.8

* Only Screw Terminal; **without Wall Mount

Accessories

Art-No.	Type	Description
79568	NE-119/24V	Power Supply Unit 230V/24VAC (400mA) for VHK-W/EC and EHL-Housing Series
79606	NE-126/12V	Power Supply Unit 230V/12VDC (1.0A) for VHK-W/EC Housings, Regulated
79575	NE-121/24V	Power Supply Unit 230V/24VAC (400mA) for VHK-W/ST Housings
79574	NE-121/12V	Power Supply Unit 230V/12VDC (400mA) for VHK-W/ST Housings, Regulated
79572	VHK-BLS/230V	Blower Set for VHK-W/STKA Housing, 230VAC
79604	SU-6	Camera Height Adjustment Kit for VHK and EHL Housings (3 Diff. Slides and Screws)
79790	WD-7/MK	Wall Mount with Swivel Head for VTL Series Outdoor Housings, black
79415	NE-115	Power Supply Unit 230VAC/12VDC (400mA) for all VTL Housings, Regulated
79614	NE-127/12V	Power Supply Unit 230V/12VDC (1.0A) for Standard VTL-W/DN2 & EHL Housing Series
79592	PM-6S	Pole Mount Adapter for 1 Wall Mount, (50-140mm Pole), RAL9002
79593	PM-6D	Pole Mount Adapter for 2 Wall Mounts, (50-140mm Pole), RAL9002

eneo VDW-1T/230V

Dome Outdoor Housing with Heater, Blower
Tinted Bubble, RAL9016, 230VAC

Art-No.: 77014

eneo VDW-1C/230V

Dome Outdoor Housing w. Heater, Blower,
Clear Bubble, RAL9016, 230VAC

Art-No.: 77005

eneo VDW-1T/24V

Dome Outdoor Housing with Heater, Blower
Tinted Bubble, RAL9016, 24VAC

Art-No.: 77013

For Outdoor Installation of Domes and Network Cameras

The eneo VDW-1 dome housing series provides perfect weather protection and is ideal for mounting dome cameras and network cameras. The removable dome housing provides simple and easy access for mounting the camera. The VDW-1 series features a powerful, thermostatically controlled heater and fan as standard, which permits the installed camera to operate at ambient temperatures as low as -20°C. The VDW-1 series is also available with a clear acrylic dome without transmission loss or a colour dome. Mounting arm VDW-1/WM is available for wall mounting and flange plate VDW-1/DFP for ceiling mounting, both mounts have concealed cable ducting.

Overview eneo Dome Housings

Art-No.	Type	Supply Voltage	Protection Rating	Bubble 9”	Heater	Built-in Height max. mm	Outside Dimensions (HxWxD) mm	Weight kg
77014	VDW-1T/230V	230VAC	IP66	tinted	√	190	300x250x250	3.4
77013	VDW-1T/24V	24V	IP66	tinted	√	190	300x250x250	3.4
77005	VDW-1C/230V	230VAC	IP66	clear	√	190	300x250x250	3.4
n. illustr. 77004	VDW-1C/24V	24VAC	IP66	clear	√	190	300x250x250	3.4

Accessories

Art-No.	Type	Description
77012	VDW-1/JVC-NETKI	Mounting Kit for Use of JVC Web Cameras in Dome Outdoor Housing VDW
77015	VDW-1/DFP	Ceiling Mount Adapter for VDW-1 Series
77011	VDW-1/WM	Wall Mount for Dome Outdoor Housing VDW, RAL9016
73138	PM-51	Pole Mount Kit for VDW-1, WD-15/16 Serie RAL7032
73137	CMA-11	Corner Mount Adapter for Wall Brackets WD-2N1 and VDW-1/WM, RAL7032

HIGHLIGHTS

Board Camera Housings

eneo EMG-1

Corner Mount Housing for Board Cameras Pantone Coolgray 1C

- For Corner Mount
- Clear Lexan Window Screen (1.0 F-stop reduction)
- For Board Cameras upto 42x42mm
- Vandal and Tamper-Resistant
- For Easy Indoor and Outdoor Installation
- Housing Finish Pantone Coolgray 1C

Art-No.: 71497

eneo WDDG-2

Dome Surface Mount Housing for Board Camera, Pantone Coolgray 1C

- For Wall and Ceiling Surface Mount
- Clear Lexan Bubble with Inner Liner
- For Board Cameras upto 42x42 mm
- Vandal and Tamper-Resistant
- Manual 2-axis Camera Adjustment
- For Easy Indoor and Outdoor Installation
- Housing Finish: Pantone Coolgray 1C

Art-No.: 71494

eneo EMG-2

Dome Corner Mount Housing for
Board Cameras, Pantone Coolgray 1C

Art-No.: 71566

eneo WDG-1

Wall/Ceiling Mount Housing for
Board Cameras, Pantone Coolgray 1C

Art-No.: 71492

eneo WDDG-1

Dome Wall/Ceiling Flush Mount Housing
for Board Cameras, Pantone Coolgray 1C

Art-No.: 71493

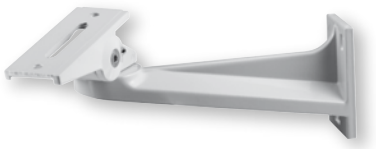
Overview eneo Board Camera Housings

Art-No.	Type	Bubble	Bubble Size	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm	Weightg
71497	EMG-1	clear	–	65x42x42	120x105x124	560
71566	EMG-2	clear	3.85"	60x42x42	100x98	450
71492	WDG-1	clear	–	65x42x42	120x104x80	500
71493	WDDG-1	clear	3.4"	65x42x42	120x120x92	600
71494	WDDG-2	clear	3.4"	65x42x42	120x120x92	720

Accessories

Art-No.	Type	Description
71664	WDDG2/H12	Low Voltage Heater Kit 12V/8W for WDDG-2 housing
74097	EDMC/CWB	Wall or Pendant Mount Kit for EDMC Dome Camera and WDDG-1 Series

Mounts for Housings



eneo WD-31/MK

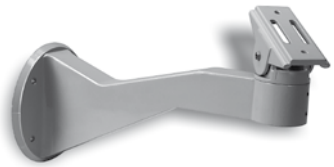
Wall Mount with Swivel Head for Outdoor Housings, RAL9002

Art-No.: 73154

eneo WD-15/MK

Wall Mount with Swivel Head for Weatherproof Housings, black

Art-No.: 73013



eneo WD-16/MK

Wall Mount with Swivel Head for VHM Weatherproof Housings, RAL7032

Art-No.: 73064

eneo WD-5/MK

Wall Mount with Swivel Head for weatherproof Housing, black

Art-No.: 79750

eneo WD-7/MK

Wall Mount with Swivel Head for VTL Series Outdoor Housings, black

Art-No.: 79790

eneo WD-7/MK RAL7032

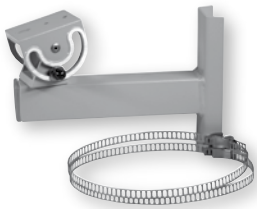
Wall Mount with Swivel Head for Outdoor Housings, RAL7032

Art-No.: 79792

eneo WD-2N/MK1

Wall Bracket with Swivel Head, RAL 7032

Art-No.: 73151



eneo MK-4

Pole Mount Bracket & Swivel Head for Weatherproof Housings, RAL7032

Art-No.: 73945

eneo DH-5

Ceiling Bracket with adjustable Housing Mount Angle, RAL7032

Art-No.: 73094

eneo PM-6S

Pole Mount Adapter for 1 Wall Mount, (50-140mm Pole), RAL9002

Art-No.: 79592

eneo PM-6D

Pole Mount Adapter for 2 Wall Mounts, (50-140mm Pole), RAL9002

Art-No.: 79593

eneo GK-2/N1

Swivel Head for WD-2N1, MK-1N1 and MK-21 RAL7032

Art-No.: 73136

Overview Mounts for Housings

Art-No.	Type	Mounting Distance/Height mm	Mounting	Load Capacity kg	Material	Colour	Weight kg
73154	WD-31/MK	164	Wall	10	Aluminium	RAL 9002	0.33
73013	WD-15/MK	300	Wall	8	Aluminium	black	1.3
73064	WD-16/MK	300	Wall	8	Aluminium	light grey, RAL 7032	1.3
79750	WD-5/MK	265	Wall	5	Aluminium	black	1.0
79790	WD-7/MK	300	Wall	5	Aluminium	black	1.0
79792	WD-7/MK RAL7032	300	Wall	5	Aluminium	light grey, RAL 7032	1.0
73151	WD-2N/MK1	345	Wall	8	Steel	light grey, RAL 7032	3.5
73945	MK-4	180	Pole	3,5	Steel	light grey, RAL 7032	0.92
73094	DH-5	312	Ceiling	9	Aluminium	light grey, RAL 7032	2.1
79592	PM-6S	50-140 Pole-∅	Pole	10	Aluminium	light grey, RAL 7032	1.0
79593	PM-6D	50-140 Pole-∅	Pole	15	Aluminium	light grey, RAL 7032	1.0

Accessories

Art-No.	Type	Description
73137	CMA-11	Corner Mount Adapter for Wall Brackets WD-2N1 and VDW-1/WM, RAL7032
79613	CMA-2	Corner Mount Adapter for Wall Brackets WD-5, WD-7, VTL-WW, VHK-WW, RAL9002
73138	PM-51	Pole Mount Kit for VDW-1, WD-15/16 Serie RAL7032
73136	GK-2/N	Swivel Head for WD-2N1, MK-1N1 and MK-21 RAL7032
79350	DNK	Swivel Head, black

eneo P/T Heads

eneo VPT-40/230V

Pan/Tilt Head 230VAC RAL7032

Art-No.: 73206

eneo VPT-40/230V-POT

Pan/Tilt Head with Potentiometer 230VAC, RAL7032

Art-No.: 73208

eneo VPT-40/230VHZ

Pan/Tilt Head with Heater 230VAC RAL7032

Art-No.: 73224

eneo VPT-40/230VAP

Pan/Tilt Head with Autopan, 230VAC, RAL7032

Art-No.: 73219

eneo VPT-40/24V

Pan/Tilt Head 24VAC, RAL7032

Art-No.: 73205

eneo VPT-40/24V-POT

Pan/Tilt Head with Potentiometer 24VAC RAL7032

Art-No.: 73207

Overview eneo P/T Heads

	Art-No.	Type	Supply Voltage	Load Capacity	Protection Rating	Rotation Range (H/V)	Autopan	Potentio-meters	Heater	Weight kg	Dimensions (HxWxD) mm
	73206	VPT-40/230V	230VAC	20kg	IP66	360°/ ±90°	–	–	–	6.5	211x154x336
	73208	VPT-40/230V-POT	230VAC	20kg	IP66	360°/ ±90°	–	√	–	6.5	211x154x336
	73224	VPT-40/230VHZ	230VAC	20kg	IP66	360°/ ±90°	–	–	√	6.5	211x154x336
	73219	VPT-40/230VAP	230VAC	20kg	IP66	360°/ ±90°	√	–	–	6.5	211x154x336
	73205	VPT-40/24V	24VAC	20kg	IP66	360°/ ±90°	–	–	–	6.5	211x154x336
	73207	VPT-40/24V-POT	24VAC	20kg	IP66	360°/ ±90°	–	√	–	6.5	211x154x336
n. illustr.	73223	VPT-40/24VHZ	24VAC	20kg	IP66	360°/ ±90°	–	–	√	6.5	211x154x336

Accessories

Art-No.	Type	Description
73229	VPT-40/230VHZ-K	Heating Kit for VPT-40/230VAC
73228	VPT-40/24VHZ-K	Heating Kit for VPT-40/24VAC
73226	VPT-40/230VAP-K	Autopan Kit for VPT-40/230VAC
77488	VPT/IRB-4L	L-Bracket for VPT-40/41/42 RAL7032
77489	VPT/IRB-4T	T-Bracket for VPT-40/41/42 RAL7032
70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66
75354	PTZF/G-EC	Control Unit for Pan/Tilt Head and Lens 24VAC with Power Supply, RAL7032

* Installation by technical service necessary

eneo VPT-41RSVT-PO

Pan/Tilt Head with Receiver Board (RS) and Potentiometer, 24VAC, RAL7032

- 20 kg Load Capacity
- Supply Voltage: 24 VAC
- Built-in Receiver/Driver Board (VT RS-485 Prot.)
- Backlash: <0,2°
- High Torques
- Potentiometers on Both Axes
- Rugged Housing
- No Maintenance Required
- Protection Rating: IP 66
- Option: Heaters

Art-No.: 73259

eneo VPT-42RSVT-PO1

Pan/Tilt Head with Receiver Board, RS-485 and Potentiometer, 24VAC, RAL7032

- 12 kg Load Capacity
- Stepper Motors Included
- Max. Speed: 32°Sec.
- Built-in R/D Board (VT RS-485 Protocol)
- Supply voltage: 24 VAC
- Backlash: <0,2°
- Potentiometers on Both Axes
- Protection Rating: IP 66
- Option: Heaters

Art-No.: 73564

Overview eneo P/T Heads with Telemetry

Art-No.	Type	Supply Voltage	Load Capacity	Protection Rating	Rotation Range (H/V)	Potentio-meters	Heater	Interface	Weight kg	Dimensions (HxWxD) mm
73259	VPT-41RSVT-PO	24VAC	20kg	IP66	360°/ ±90°	√	–	√ *	7	211x168x336
73729	VPT-41RSP-PO	24VAC	20kg	IP66	360°/ ±90°	√	–	√ **	7	211x168x336
73564	VPT-42RSVT-PO1	24VAC	12kg	IP66	360°/ ±90°	√	–	√ *	7.5	211x168x336
73728	VPT-42RSP-PO	24VAC	12kg	IP66	360°/ ±90°	√	–	√ **	7.5	211x168x336

* RS-485 Interface - VT protocol, other protocols upon request
** RS-422 Interface - Pelco D and P protocol

Accessories

Art-No.	Type	Description
79617	VHM/ZB-VPT41	Connection Cable VHM/ZLB to VPT-41, 0.35m
79618	VHM/ZB-VPT42	Connection Cable VHM/ZLB to VPT-42 and VPT-551, 0.35m
74094	EDC-COAX	Coax Telemetry Board for VPT-41/42, EDC/EDMC Series. assembled
73296	VPT-41-42/HZ-K	Heating Kit for VPT-41/RS and VPT-42/RS
77488	VPT/IRB-4L	L-Bracket for VPT-40/41/42 RAL7032
77489	VPT/IRB-4T	T-Bracket for VPT-40/41/42 RAL7032
70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66
73927	VPT-41/42ABPOS	Upgrade Software Absolute Positioning for VPT-41/42, Win98, 2000 and XP
73497	VPT-42RS/SS	Control Software Vtrans for VPT-42RS Win98, 2000 and XP
74118	KBD-1	System keyboard with joystick 12VDC/230VAC
75207	EKR-KB1	Universal Keyboard for Matrix Switchers EKR Series, Pantone Coolgray 1C

eneo P/T Heads with Telemetry

eneo VPT-501

Pan/Tilt Head, 100°/sec. max., RS-485, 24VAC, Multiple Protocol Interface

- 12kg Load Capacity
- Speed 100°/sec. max.
- Horizontal Rotation Range +/-185°
- Backlash <0,2°
- 64 Presets
- Autopan and Tour Function with Vector Scan
- RS-485 Serial Interface (Multiple Protocol)
- Supply Voltage 24VAC, 50/60Hz
- Protection Rating IP66
- Housing Finish RAL7032
- Maintenance-free
- Option: Thermostatically Controlled Heater

Art-No.: 75302

The Success Story Continues: New VPT System for High Speed Applications

The new eneo VPT Pan/Tilt Head ties in with a successful production tradition: more than 50,000 VPT systems are currently in operation around the world, reliably carrying out their work even in adverse weather conditions. The new VPT-501 now heralds a new era for high-speed applications: the pan/tilt head is three times as fast as the VPT-42 and can be operated with existing housing models.

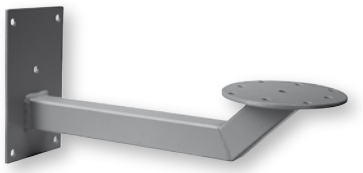
The former external shape has been retained to a great extent. The maximum horizontal variable rotation speed is 100°/sec, and the tilt range speed has been increased to 50°/sec. At the same time, the power transmission ratio has been optimised and the torque thus improved.
Up to 64 positions can be preset with nearly full maintenance-free operation. Hall elements are used for cut-off instead of a wear-susceptible switch. Just the same as its predecessors, the VPT excels through its high reliability along with positioning precision.

Overview eneo P/T Heads with Telemetry

Art-No.	Type	Supply Voltage	Load Capacity	Protection Rating	Rotation Range (H/V)	Potentio-meters	Heater	Interface	Weight kg	Dimensions (HxWxD) mm
75302	VPT-501	24VAC 50/60Hz	12	IP66	185°/ ±90°	√	optional	√	7	211x168x336

Accessories

Art-No.	Type	Description
73949	VPT-500SCS	Endswitcher PC Configuration Software for VPT-500 P/T Head Series
73296	VPT-41-42/HZ-K	Heating Kit for VPT-41/RS and VPT-42/RS
73527	WCS1-4	Power Supply 230V/24VAC-28VAC (4A) in weatherproof Housing
74118	KBD-1	System keyboard with joystick 12VDC/230VAC
70457	AK-3	Camera Connection box, 230VAC Input 24VAC-100W, 12VDC-1A Output
70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66
73152	WD-29	Wall Bracket for Pan/Tilt Heads VPT Series, RAL7032
73153	PM-7	Pole Mount Adapter for WD-29 (80-150mm Pole), RAL7032
79618	VHM/ZB-VPT42	Connection Cable VHM/ZLB to VPT-42 and VPT-551, 0.35m



eneo WD-2N1

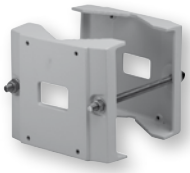
Wall Bracket for Pan/Tilt Heads
VPT-40/41/42, RAL7032

Art-No.: 73099

eneo WD-29

Wall Bracket for Pan/Tilt Heads
VPT Series, RAL7032

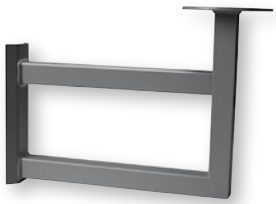
Art-No.: 73152



eneo PM-7

Pole Mount Adapter for WD-29
(80-150mm Pole), RAL7032

Art-No.: 73153



eneo MK-1N1

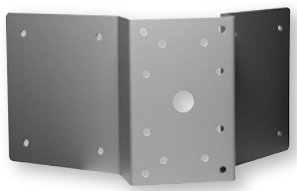
Pole Bracket for Pan/Tilt Heads
RAL7032

Art-No.: 73134

eneo MK-21

Pole Column Spacer for Pan/Tilt Heads,
200mm Height, RAL7032

Art-No.: 73139



eneo CMA-11

Corner Mount Adapter for Wall Brackets
WD-2N1 and VDW-1/WM, RAL7032

Art-No.: 73137

Overview Mounts for P/T Heads

Art-No.	Type	Mounting Distance/Height	Mounting	Load Capacity	Material	Colour	Weight kg
73099	WD-2N1	345	Wall	20kg	Steel	RAL 7032	2.3
73152	WD-29	388	Wall	50kg	Aluminium	RAL 7032	2.2
73134	MK-1N1	350	Pole	15kg	Steel	RAL 7032	3.0

Accessories

Art-No.	Type	Description
73153	PM-7	Pole Mount Adapter for WD-29 (80-150mm Pole), RAL7032
73139	MK-21	Pole Column Spacer for Pan/Tilt Heads, 200mm Height, RAL7032
73137	CMA-11	Corner Mount Adapter for Wall Brackets WD-2N1 and VDW-1/WM, RAL7032

eneo Infra-Red LED Illuminators

Overview eneo Infra-Red LED Illuminators

Art-No.	Type	Supply Voltage	Power Consumption	Illumination Range**	Filter	Horiz. Angle of Illumination	Integral Twilight Switch	Dimensions (HxWxD) mm
73923	MFL-I/LED5-12	12VDC	5W	30-35m*	850nm	30°	-	50x64 (LxD)
73826	WFL-II/LED15-12	12VDC	15W	15m	950nm	40°	-	66x66x55
71721	IR LED300-B-50	200-240VAC	72W	150m	880nm	50°	integrated	129x230x127
71724	IR LED300-B-50R	200-240VAC	72W	150m	880nm	50°	integrated	129x230x127
71726	IR LED300-B-20	200-240VAC	72W	180m	880nm	20°	integrated	129x230x127
71731	IR LED300-C-35	200-240VAC	72W	100m	950nm	35°	integrated	129x230x127

All Infra-Red LED Illuminators with Protection Rate IP66
* Ca. 30m (HAD CCD), 35m (Ex-View CCD) at 0 ~ +50°C
** Requires use of a camera with good sensitivity in the infrared range, a relative lens F-stop: min. F 1.4, and a medium reflection factor of the radiated objects.

Accessories

Art-No.	Type	Description
73827	NE-109N	Power Supply 110-240VAC/12VDC for one LED-Infrared Illuminator 15W, Regulated
73433	DS-3	Twilight Switch with ON/OFF Delay adjustable Switching Points, 230VAC
71825	IR LED-WBSET	Digital Video Recorder (9-Channel) 120GB HDD, Alarm Inputs, Network

The New Generation of eneo Infrared Illuminators

The new generation of eneo Infrared Illuminators is now available: the exclusive LED300 Series. The new models come with over 22% more light-emitting diodes plus a power supply unit produced solely for the LED300 Series in Germany and which is designed for high service life as well as optimum efficiency. The power supply unit has integral PFC (Power Factor Correction) to ensure outstanding heat balance. The high efficiency (over 97%) combined with power supply unit PFC delivers lower power consumption for the LED 300 Series than its predecessors, even though more light-emitting diodes are used.

Examples of further changes are the upgraded transmission behaviour of the polished front window, new positioning of the integral twilight switch which operates with increased precision due to the front viewing direction, as well as a mechanism inside the illuminator that ensures the illuminator does not switch off due to reflected infrared light.

An optionally available bracket has also been developed especially for the LED300 Series – it guarantees maximum neutral-load installation combined with exceptional stability.

eneo WD-5/MK

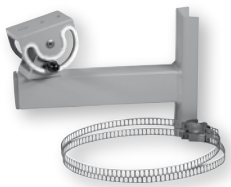
Wall Mount with Swivel Head for weatherproof Housing, black

Art-No.: 79750

eneo WD-9N

Wall Mount with Ball Joint, 1/4" Camera Fixing Screw, Black Finish

Art-No.: 70023



eneo MK-4

Pole Mount Bracket & Swivel Head for Weatherproof Housings, RAL7032

Art-No.: 73945

Overview Mounts for IR Illuminators

Art-No.	Type	Illuminator	Mounting Distance/ Height	Mounting	Load Capacity	Material	Colour	Weight
79750	WD-5/MK	35/40W	265mm	Wall	5kg	Aluminium	black	1kg
70023	WD-9N	5/15W	203mm	Wall	350g	Aluminium	black	260g
73945	MK-4	35/40W	180mm	Pole	3kg	Steel	RAL7032	920g

eneo Network Transmission PG-Series

IP-SERVER PG Series

PG-Manager Software

Control, recording and configuration software for PG Series network products

- Simultaneous connection of up to 16 video sources
- Efficient, stable and fast network connection
- Access to device setup and configuration
- Full PTZ functionality (if supported by the video source)
- Event- and time-controlled recording
- Time-controlled image search with event display
- Bidirectional audio
- Intuitive user interface
- Bundled with all PG Series products

Bundled Software

Up to 16 video sources can be simultaneously displayed with the PG-Manager software. A schedule can be individually defined for each connected video source. Automatic alarm image display gives reliable information on occurring events, which allows users to attend to other PC tasks. Switching between the different display modes is possible in full screen display mode without having to return to the start menu. Control of video sources with PTZ functionality is user-friendly in a corresponding freely-positionable window. The program also offers bidirectional audio in addition to multi-level password protection. Software operation is intuitive on the clearly structured user interface. The software is bundled with all PG Series products. This means that you get an extremely powerful tool for operation and configuration of the PG products in your IP-based video surveillance system – without any additional costs.

eneo PGS-2101

Network Video Server, 1-channel, Network Interface, 9VDC/230VAC

- 1-ch. Video Networking Server for LAN/WAN/Internet
- Simultaneous Video and Audio Transmission
- MPEG-4 Compression / Alarm Input/Output
- Image Frame Rate: Up to 25 Frames/Sec.
- Resolution of 704x576 Pixels (at 25Fr./Sec.)
- Data Rate up to 2MB/Sec. / MPEG-4
- RS-232/RS-485 Modem / Telemetry Control Interface
- Built-in Web Server / 10Base-T/100Base-TX
- Viewer for Monitoring, Recording and Configuration
- Surveillance via LAN/WAN and Internet (no add. PC)
- E-Mail Function in Case of an Alarm
- 100 Users Simultaneous Support

Art-No.: 91542

eneo PGV-2101

Network Video Decoder, 1-channel, Network Interface, 9VDC/230VAC

- 1-ch Video Networking Decoder for LAN/WAN/Internet
- Simultaneous Video and Audio Decoding
- MPEG-4 Decompression Standard
- Resolution of 704x480 Pixels (at 25Fr./Sec.)
- Data Rate up to 2MB/Sec. / MPEG-4
- Microphone Input / Line Output (G.711/G.726)
- RS-232/RS-485 Modem / Telemetry Control Interface
- Ethernet Interface: 10Base-T/100Base-TX
- Viewer for Configuration via WebBrowser
- Surveillance via LAN/WAN and Internet (no add. PC)
- Composite Output
- 19"-rackable

Art-No.: 91545

eneo PGS-2101/W

Network Video Server, 1-channel, WLAN Network Interface, 12VDC/230VAC

Art-No.: 91543

eneo PGS-2104

Network Video Server, 4-channel, Network Interface, 12VDC/230VAC

Art-No.: 91544

eneo PG-Manager

Control, recording and configuration software for PG-Series network products

included in delivery

Overview eneo Network Transmission PG-Series

Art-No.	Type	Compression Standard	Frames per second	Audio Support	PTZ Control	Resolution (Video)	Video Sources	Supply Voltage*	Interfaces	Alarm I/O
91542	PGS-2101	MPEG-4	25	√	√	704x576	1	12VDC	RS-232 / RS-485	1/1
91543	PGS-2101/W	MPEG-4	25	√	√	704x480	1	12VDC	RS-232 / RS-485	1/1
91544	PGS-2104	MPEG-4	100	√	√	352x288	4	12VDC	RS-485	4/4
91545	PGV-2101	MPEG-4	-	√	-	704x480	-	9VDC	RS-232 / RS-485	1/1

* Power Supply 230VAC included.
Network-Interface: 10Base-T/100Base-TX

Accessories

Art-No.	Type	Description
91546	PGA-BGT	19" Rack Mount Housing for 9 PGS/PGV Network Moduls

eneo Network Transmission NT-Series

HIGHLIGHTS

NT Series

eneo NTS-2101

Network Video Server, 1-channel, Network Interface, 5VDC/230VAC

- 1-ch. Video Networking Server for LAN/WAN/Internet
- NTSC / PAL Auto Detection
- MPEG-4 Compression
- Surveillance via LAN/WAN and Internet (w./o. PC)
- Image Frame Rate: Up to 25 Fr./Sec. (720x576 Px.)
- Bi-directional Audio Transmission
- RS-485 Upgrade / Telemetry Control Interface
- Alarm In / Outputs and Motion Detection
- Integrated Web Server: 10Base-T/100Base-TX
- Viewer for Monitoring, Recording and Configuration
- Pre and Post Event Recording (in Client PC)
- e-Mail Notification in Case of an Alarm

Art-No.: 93101

eneo NTS-2104

Network Video Server, 4-channel, Network Interface, 5VDC/230VAC

- 4-ch. Video Networking Server for LAN/WAN/Internet
- NTSC / PAL Auto Detection
- MPEG-4 Compression
- Surveillance via LAN/WAN and Internet (w./o. PC)
- Image Frame Rate: Up to 25 Fr./Sec. (720x576 Px.)
- Bi-directional Audio Transmission
- RS-485 Upgrade / Telemetry Control Interface
- Alarm In / Outputs and Motion Detection
- Integrated Web Server: 10Base-T/100Base-TX
- Viewer for Monitoring, Recording and Configuration
- Pre and Post Event Recording (in Client PC)
- e-Mail Notification in Case of an Alarm

Art-No.: 93102

eneo NT-Manager

Control, recording and configuration software for NT Series network products

included in delivery

Overview eneo Network Transmission NT-Series

Art-Nr.	Type	Compression Standard	Frames per second	Audio Support	Transmission via	Resolution (Video)	Video Sources	Supply Voltage*	Interfaces	Alarm I/O
93101	NTS-2101	MPEG-4	25	⇆	LAN/WAN	720x576	1	5VDC	RS-485	2/1
93102	NTS-2104	MPEG-4	25	⇆	LAN/WAN	720x576	4	5VDC	RS-485	2/1

* Power Supply 230VAC included.
Network-Interface: 10Base-T/100Base-TX

eneo VZS-6

Video Twisted Pair Transmitter (BNC Type), Composite Input, 12VDC

Art-No.: 70599

eneo VZS-5

Twisted Pair Transmitter, Composite Input, Composite and TP Output, 230VAC

Art-No.: 70517

eneo VZT-21B/TB

Passive Twisted Pair Transmitter or Receiver, Compos. In/Output, BNC-T.Block

Art-No.: 75802

Overview Compact Transmitter & Transmitter/Receivers in Weatherproof Housings

	Art-No.	Type	Coaxial		Twisted Pair		Supply Voltage	Connectors	Protection Rating	Dimensions (HxWxD) mm
			Inputs	Outputs	Inputs	Outputs				
n. illustr.	75801	VZT-21A/RJ45	1	1	1	1	–	RJ-45	–	22x25x54
	75802	VZT-21B/TB	1	1	1	1	–	Terminals	–	22x25x54
n. illustr.	75803	VZT-21C/RJ45	1	1	1	1	12VDC Transmission	RJ-45	–	22x25x54
	70599	VZS-6	1	–	–	1	12VDC	Terminals	–	20x20x49
	70517	VZS-5	1	1	–	1	230VAC	Terminals	IP67	70x80x140
n. illustr.	70519	VZE-5	1	4	1	–	230VAC	Terminals	IP67	70x80x140
n. illustr.	70518	VZZ-5	1	2	1	1	230VAC	Terminals	IP67	70x80x140

Overview Rackmount-Systems 19“

	Art-No.	Type	Coaxial		Twisted Pair		Supply Voltage	19“ Rack mountable	Dimensions (HxWxD) mm
			Inputs	Outputs	Inputs	Outputs			
n. illustr.	70564	VZS-4/M1	1	1	–	1	12VDC	√	50x17.5x90
n. illustr.	70567	VZS-4/M2	1	1	–	1	12VDC	√	50x17.5x90
n. illustr.	70568	VZE-4/M2	1	4	1	–	12VDC	√	50x17.5x90
n. illustr.	70569	VZZ-4/M2	1	2	1	1	12VDC	√	50x17.5x90

Accessories

Art-No.	Type	Description
70447	VT-PS12DC-5	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, with DC Plug
77779	VT-PS12DC-UK	Power Supply Unit w. UK Mains plug-in, 100-240VAC/12VDC-1.0A, Regul., open Ends
70584	VZS-4/M-CB1	19“ Connector Board for two VZS-4 Modules
70579	VZE-4/M-CB1	19“ Connector Board for two VZE-4 Modules
70583	VZZ-4/M-CB1	19“ Connector Board for two VZZ-4 Modules
70586	VZSY-4/M-FR	Rack Mount Front Panel for Twisted Pair Modules VZSY-4
70587	VZSY-4/19”	19“ Card Cage Housing for 34 Twisted Pair Cards with built-in Power Supply
70594	VZSY-4/19”-B1	Blank Panel Plate 1TE
70595	VZSY-4/19”-B2	Blank Panel Plate 2TE
70596	VZSY-4/19“-B5	Blank Panel Plate 5TE
70597	VZSY-4/19“-B10	Blank Panel Plate 10TE

HIGHLIGHTS

eneo Matrix Switcher Series

eneo EKR-8/4

8-4 Video/Telemetry Matrix Switcher, 230VAC

- Up to 8 Inputs/4 Outputs
- Multiple Language On-Screen Menu Driven Set-up
- Time/Date/Text Insertion
- Group Call-up for Cameras/Monitors
- Programmable Camera Sequences incl. Preset Calls
- Automatic Alarm Call-up
- Camera Control Selection: Coaxial or RS-485
- Videoloss Detection
- Video Signal Masking of Fixed Cameras
- VCR Trigger Management
- Password Protected
- Different Keyboard Versions Available

Art-No.: 75202

eneo EKR-32/8

32-8 Video/Telemetry Matrix Switcher, 230VAC

- Up to 32 Inputs / 8 Outputs
- Multiple Language On-Screen Menu Driven Set-up
- Time/Date/Text Insertion
- Group Call-up for Cameras/Monitors
- Programmable Camera Sequences incl. Preset Calls
- Automatic Alarm Call-up
- Camera Control Selection: Coaxial or RS-485
- Videoloss Detection / VCR Trigger Management
- Video Signal Masking of Fixed Cameras
- Master / Slave System: 1 Master / 4 Slaves max.
- Parallel System: Up to 9 Matrixes can be Connected
- Controllable via 2 different Keyboards

Art-No.: 75206

Under Control

The eneo EKR matrix switcher series covers all requirements ranging from small CCTR applications right up to complex systems. In addition to four-language menu navigation as well as date, time and text displays, all three matrix switchers offer extensive alarm management. This allows connected cameras and monitors to be called up in groups, or signals from specific cameras can be hidden. The date and time of each alarm status and the programmed camera name can be output on the screen. When there is an alarm, the corresponding camera switches to the monitor and overwrites the current image. Also, an alarm is triggered to the security team when a video signal malfunctions.

Matrix operation is performed by the optionally available eneo selection keyboards or also by an external PC over the RS-232 interface, and they are programmed via the selection keyboard and password-protected screen menus. Remote control of all key camera functions (pan, tilt, zoom, focus) as well as selection of stored preset positions is also featured. Several RS-485 interfaces are available for connecting pan/tilt systems and keyboards as well as multiplexer control.

eneo EKR-16/4

16-4 Video/Telemetry Matrix Switcher, 230VAC

Art-No.: 75208

eneo EKR-8/16-4KB

Universal Keyboard for Matrix Switchers EKR-8/4, EKR-16/4, Pantone Coolgray 1C

Art-No.: 75205

eneo EKR-KB1

Universal Keyboard for Matrix Switcher EKR Series, Pantone Coolgray 1C

Art-No.: 75207

eneo EKR-PTZFI-R2

RS-232/RS-485/Coax Telemetry Receiver for 230VAC Input and P/T Heads

Art-No.: 75212

eneo EKR-PTZFI-CB

Coax Telemetry Board for EKR-PTZFI-R1 Receiver

Art-No.: 75211

eneo EKR-PTZF-R1

RS-232/RS-485 Telemetry Preset Receiver 230VAC, for P/T Heads 24V/230VAC

Art-No.: 75209

Overview eneo EKR Matrix Switcher Series

Art-No.	Type	Description
75202	EKR-8/4	Up to 8 Inputs/4 Outputs, Multiple Language On-Screen Menu Driven Set-up, Time/Date/Text Insertion, Group Call-up for Cameras/Monitors, Programmable Camera Sequences incl. Preset Calls, Automatic Alarm Call-up, Camera Control, Selection: Coaxial or RS-485, Videoloss Detection, Video Signal Masking of Fixed Cameras, VCR Trigger Management , Password Protected, Different Keyboard Versions Available
75208	EKR-16/4	Up to 16 Inputs/4 Outputs, Multiple Language On-Screen Menu Driven Set-up, Time/Date/Text Insertion, Group Call-up for Cameras/Monitors, Programmable Camera Sequences incl. Preset Calls, Automatic Alarm Call-up, Camera Control Selection: Coaxial or RS-485, Videoloss Detection, Video Signal Masking of Fixed Cameras, VCR Trigger Management, Password Protected, Different Keyboard Versions Available
75206	EKR-32/8	32-8 Video/Telemetry Matrix Switcher, 230VAC

Accessories

Art-No.	Type	Description
75205	EKR-8/16-4KB	Universal Keyboard for Matrix Switchers EKR-8/4, EKR-16/4, Pantone Coolgray 1C. Operation of EKR-(8)16/4 Matrix Switchers, Fixed Speed Control of PT Heads and Zoom Lense, Camera and Monitor Call-Up, Programmable Sequences/Salvos and Tours, Addressable, RS-485 Serial Interface, Supply Voltage: 12 VDC
75207	EKR-KB1	Universal Keyboard for Matrix Switchers EKR Series, Pantone Coolgray 1C. Operation of EKR-(8)16/4 , EKR-32/8 Matrixes, Fixed or Variable Speed Control, Camera and Monitor Call-Up, Programmable Sequences/Salvos and Tours, LCD Display, Addressable, RS-485 Serial Interface, Supply Voltage: 12VDC, Direct Control of P/T Head and Domr Cameras
75212	EKR-PTZFI-R2	Zoom Lens and 230 P/T Head Control, Receiver for RS-485/RS-232 Control, Coaxial Control Signal Input, Alarm Inputs, Auxiliary Switch Outputs, Supply Voltage: 230VAC, Weatherprotected Box
75211	EKR-PTZFI-CB	Coax Telemetry Board for EKR-PTZFI-R1 Receiver
75209	EKR-PTZF-R1	Zoom Lens and 230/24VAC P/T Head Control, Preset Positioning, Receiver for RS-485 Control, Auxiliary Switch Outputs, Supply Voltage: 230VAC, Weatherprotected Box, Option: Coaxial Control Signal Input
75203	EKR-EB	Expansion kit to 16 Inputs/4 Outputs for EKR-8/4

eneo Quads

eneo VBQ-6045

B&W Quad Splitter, 720x625, Alarm In/Outputs, 12VDC/230VAC

- Display of 4 B&W Pictures on one Screen
- Real Time Refresh Rate
- Resolution: 720x625 Pixels
- Refresh Rate: 25 Frames/sec.
- Automatic Gain Control
- Video Loss Detection, „Freeze“ of the last Picture
- Programming via On-screen Menu
- Time/Date/Camera Title Display
- 2x Zoom on Playback
- Alarm Inputs/Relay Contact Output
- RS-232 Interface
- Option: 19“ Rack Mount Kits

Art-No.: 72613

eneo VCQ-6057

Colour Quad Splitter, 1024x625, Alarm In/Outputs, 12VDC/230VAC, 1/2 19“

- Display of 4 Colour Pictures on one Screen
- Real Time Refresh Rate
- Resolution: 1024x625 Pixels
- Refresh Rate: 50 Fields/sec.
- Automatic Gain Control
- Video Loss Detection, „Freeze“ of the last Picture
- Programming via On-screen Menu
- Time/Date/Camera Title Display
- 2x Zoom on Playback
- Alarm Inputs/ Relay Contact Output
- RS-232 Interface
- Option: 19“ Rack Mount Kits

Art-No.: 72614

Overview eneo Quads

Art-No.	Type	BW/Colour	Inputs	Outputs	Alarm I/O	Resolution Pixel	OSD Menu	Supply Voltage	Dimensions (HxWxD) mm
72613	VBQ-6045	b/w	4	2	4/1	720x625	-	12VDC/230VAC	44.1x215x200
72614	VCQ-6057	colour	4	2	4/1	1024x625	√	12VDC/230VAC	44.1x215x200

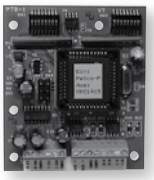
Accessories

Art-No.	Type	Description
72284	VBQ6044/VCQ6056	Cable Remote Controlor VBQ-6044/VCQ-6056 Quads, 10m Cable
72365	VT-6053/FB1	Cable Remote Control for VT-6042/6053 Quads
72556	VQ6056/6044RMK1	19“ Rack Mount Kit for 1x ENEO Quad Splitter VCQ-6056 and VBQ-6044
72557	VQ6056/6044RMK2	19“ Rack Mount Kit for 2x ENEO Quad Splitters VCQ-6056 and VBQ-6044
72286	VT-6000/7000RMK	19“ Rack Mount Kit for all ENEO Quad Splitters and 4-channel Multiplexer

eneo LINE DRIVER

Converter RS232C/RS485 + DB9/DB25 Gendor Adapter

Art-No.: 71003



eneo PTB-1

Protocol Translator Board, 12VDC for Build-in VHM/ST Housing Series

Art-No.: 72501

eneo PDU-1

Protocol distributor 1/8 in Desktop Housing, Unidirectional, 2VDC/230VAC

Art-No.: 72441

eneo VDA-4A

Video Signal Distributor 1 Inp., 4 Outp. in Housing, 230VAC, Pantone Coolgray 1C

Art-No.: 75101

eneo VDA-8CA

Video Signal Distrib. 1-4 Inputs, 2-8 Outp., config.,230VAC,Pantone Coolgray1C

Art-No.: 75102

eneo AVU-8/2EC

Video Switcher 8 Inputs, 2 Outputs in Desktop Housing,230V, Pantone Coolgray1C

Art-No.: 76405

eneo AVU-8/2AL-2

Video Switcher 8 In/2 Outputs,Alarm Inp. 230VAC, Desktop Housing, Coolgray 1C

Art-No.: 76406

eneo VKE-1N-1

Video Cable Equalizer, 1 Input, 230VAC

Art-No.: 76941

eneo EGLC-3

Ground-loop corrector BNC/BNC

Art-No.: 72612

eneo VAM-1

Video/Audio HF-Modulator for sending AV Signals to TV Set or TV Networks

Art-No.: 72356

eneo VDA/AVU-RMK1

19“ Rack Mount Kit for 1xVDA-8CA and AVU-8/2AL-2

Art-No.: 76407

eneo VDA/AVU-RMK2

19“ Rack Mount Kit for 2xVDA-8CA and AVU-8/2AL-2

Art-No.: 76408

eneo Switchers & Amplifiers

Overview eneo Switchers & Amplifiers

Art-No.	Type	Description
71003	LINE DRIVER	Converter RS232C/RS485 + DB9/DB25 Gendor Adapter
72501	PTB-1	RS-232 or RS-485 Protocol Converter Board, Converts Pelco P Protocol to VKC-1415, Camera Configuration via its own Menu, Zoom/Focus Control and Preset Positioning, 256 Presets Available, Selectable Adresses and Baud Rates, Voltage supply: 12VDC, For Housing Series VHM/ST Prepared, Other Protocol Combinations: Upon Request
72441	PDU-1	Active RS-485 Signal Distribution to 8 Outputs, Unidirectional Data Transmission, Desktop Housing, Power Supply: 12VDC, Power Supply Unit 100-240VAC/12VDC Included
75101	VDA-4A	1 Input, 4 Outputs, Video Bandwidth: 10 MHz (+/-3 db), Signal-to-noise Ratio: >55 db, Integrated Signal Pre-Equalization (HF Gain), Integrated Signal Pre-Amplification (Linear Gain), Supply Voltage: 230 VAC / 50 Hz
75102	VDA-8CA	1 to 4 Inputs, 2 to 8 Outputs, Video Bandwidth: 10 MHz (+/-3 db), Signal-to-noise Ratio: >55 db, Integrated Signal Pre-Amplification (Linear Gain), Supply Voltage: 230 VAC / 50 Hz
76405	AVU-8/2EC	8 Camera Inputs, 2 Outputs (A and B), Outputs Selectable as Spot or Sequence, Vertical Interval Switching, Selectable Dwell Time, Programmable Bypass Function, Supply Voltage: 15 VAC 50/60 Hz
76406	AVU-8/2AL-2	8 Video and Alarm Inputs, Spot and Sequence Output, Vertical Interval Switching, Multilingual On-screen Menu Programming, Selectable Dwell Times, Frame-by-Frame Switching, Programmable Bypass Function, VCR Head Switch Pulse Input, Alarm and Remote Control Input, Alarm/ Switcher Output, Camera/Sequence and Alarm No. Display, Built-in Buzzer

Overview Accessories Signal Processing

Art-No.	Type	Description
76941	VKE-1N-1	Video Cable Equalizer, 1 Input, 230VAC. Corrects Cable Attenuation of High Frequencies, For Current Cable Types, Adjustable from 0 to 1500 m, Supply Voltage: 115 / 230 VAC
72612	EGLC-3	Ground-loop corrector BNC/BNC. Provides Ground Isolation, Compatible with Coax Control Systems, Isolated BNC Connectors, No Power Requirement
72356	VAM-1	Video/Audio HF-Modulator for sending, AV Signals to TV Set or TV Networks, Adjustable Channel Range: 29 to 46 (470 to 862MHz), Antenna Loop-thru Input, Integrated Test Pattern Generator, Upto 4 Units Cascadable, Supply Voltage: 12 VDC
76407	VDA/AVU-RMK1	19“ Rack Mount Kit for 1xVDA-8CA and AVU-8/2AL-2
76408	VDA/AVU-RMK2	19“ Rack Mount Kit for 2xVDA-8CA and AVU-8/2AL-2

eneo EDM-40

4-Channel Digital Video Motion Detector, PC-programmable, 230VAC

- Simultaneous Surveillance of Four Video Channels
- Digital Video Motion Detection
- Free Programmable Sensor Zones
- Resolution of 6480 Zones / Camera
- 98,304 Points of Detection
- Several Alarm Processings
- Sensitivity 10 Steps
- Camera Alarm and Sabotage Detection
- Display on PC Monitor Screen
- Easy Programming

Art-No.: 72651

EDM-40: Digital Video Motion Detector

The EDM-40 is a digital video sensor for simultaneous surveillance by four cameras. The activity zones are easily set on the PC screen by using the bundled software. Four sensor zones can be set per camera with a freely configurable 6480 fields for each camera. Up to four time zones can be defined for each camera, and they can be set in a 15-minute grid to give maximum precision.
The EDM-40 scans every sensor field up to eight times per second. Various filter functions eliminate weather-related false alarms. Sabotage detection furthermore reliably identifies video signal failures, analyses changes in the signal level and contrast in the activity areas, and triggers an alarm as required.
Of course, the EDM-40 also has useful features such as freely positionable text display, date and time display as well as an integral real-time clock.

Overview eneo Motion Detectors

Art-No.	Type	Video		Alarm I/O	Alarm Zones	Outdoor Use	Day/Night Mode	Interface	Supply Voltage	Dimensions (HxWxD) mm
		Inputs	Outputs							
72352	EDM-40	4	4	6/6	4	√	√	√	230VAC	1HEx19"x200

eneo Digital Video Recorders

HIGHLIGHTS

eneo DSR Series

eneo DSR-01N/80

Digital Video Recorder (1-Channel), 80GB internal HDD, Alarm Input, Ethernet

- Single Channel DVR / Simplex Mode
- MJPEG Video Compression
- Integral 80Gbyte Hard Disk (250GB max.)
- Removable Hard Disk up to 250GB max.
- Recording Speed: 50 Fields/Sec. max.
- Resolution 704x288 Pixels max.
- Audio and Alarm Input and Output
- Pre and Post Alarm Recording
- Multiple Language On-screen Menu Control
- Interface with Most Popular Multiplexers
- Various Recording Modes
- Ethernet Connectivity

Art-No.: 71864

eneo DSR-04N/80

Digital Quad Video Recorder (4-Channel), 80GB internal HDD, Alarm Input, Ethernet

- 4-Channel Quad DVR / Simplex Mode
- MJPEG Video Compression
- Integral 80Gbyte Hard Disk (250GB max.)
- Removable Hard Disk up to 250GB max.
- Record/Playback Speed: 50 Fields/Sec. max.
- Resolution 704x240 Pixels max.
- Audio and Input and Output
- Alarm Input and Outputs
- Pre and Post Alarm Recording
- Multiple Language On-screen Menu Control
- Various Recording Modes
- Ethernet Connectivity

Art-No.: 71862

Overview eneo DSR Series

Art-No.	Type	Video I/O	Hard Disk Capacity	Operation	Recording Speed max.	Multiscreen Display	Transmission via	Dimensions (HxWxD) mm
71864	DSR-01N/80	1/2	80GB	Simplex	50 fields/sec.	–	Ethernet	89x220x320
71862	DSR-04N/80	4/1	80GB	Simplex	25 fields/sec.	4x	Ethernet	89x220x320

Accessories

Art-No.	Type	Description
72547	DLR-201/RMK-1	19“ Rack Mount Kit for 1x DSR-01N/-04N
72548	DLR-201/RMK-2	19“ Rack Mount Kit for 2x DSR-01N/-04N
71903	ADP-6006	HDD Viewer for Digital Recorder Series DSR and DNR, 12VDC/230VAC
71828	HDD-160S	Hard Disk Drive 160Gb for DSR-01N/-04N, DNR-108/80(W)
71848	SD Card/256	SD Memory Card 256MB for DSR-01N/-04N Video Recorder, ENC-501/1004L Cameras

HIGHLIGHTS

eneo DLR Series

eneo DLR1-04N/250

Digital Video Recorder (4-Channel), 250GB HDD,
Alarm In/Outputs, Ethernet

- Duplex Operation
- MPEG-4 Video Compression
- Recording Speed: 100 Fields/Sec. max.
- Video Resolution: 720x576 Pixels max. (PAL)
- 4 Loop-through Inputs / VGA, Composite Output
- Network Connectivity (10/100Base-T Ethernet)
- Audio and Alarm Inputs / Outputs
- Secondary Storage / Archiving via USB
- 250GB EIDE HDD
- Live Picture & Playback Zoom (2x)
- Integrated Motion Detector
- IR Remote Control

Art-No.: 71958

eneo DLR3-16N/660CD

Digital Video Recorder (16-Channels), 660GB HDD, CD-RW Drive,
Ethernet,230VAC

- Duplex Operation
- MPEG-4 Video Compression
- Recording / Playback Speed 100 Fields/Sec. max.
- Video Resolution 720x576 Pixels max. (PAL)
- 16 Loop-through Inputs / VGA, Composite Outputs
- Network Connectivity (10/100Base-T Ethernet)
- Audio and Alarm Inputs / Outputs
- Secondary Storage/Archiving via USB and CD-RW
- Storage Capacity 660GByte (3 HDDs max.)
- Live Picture & Playback Zoom (2x)
- Integrated Motion Detector
- PTZ Control and Remote Control through RS-485 Port

Art-No.: 71928

eneo DLR1-04N/160

Digital Video Recorder (4-Channel)
160GB HDD, Alarm In/Outputs, Ethernet

Art-No.: 71921

eneo DLR2-04N/160

Digital Video Recorder (4-Channel)
160GB Hard Disk, Alarm Input, Ethernet

Art-No.: 71931

eneo DLR2-04N/480

Digital Video Recorder (4-Channel)
480GB Hard Disk, Alarm Input, Ethernet

Art-No.: 71933

eneo Digital Video Recorders

eneo DLR3-08N/160CD

Digital Video Recorder (8-Channels)
160GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No.: 71923

eneo DLR3-08N/410CD

Digital Video Recorder (8-Channels)
410GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No.: 71924

eneo DLR3-08N/660CD

Digital Video Recorder (8-Channels)
660GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No.: 71925

eneo DLR3-16N/160CD

Digital Video Recorder (16-Channel)
160GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No.: 71926

eneo DLR3-16N/410CD

Digital Video Recorder (16-Channels)
410GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No.: 71927

Overview eneo DLR Series

Art-No.	Type	Video I/O	Hard Disk Capacity	Operation	Recording Speed max.	Multiscreen Display	Transmission via	Dimensions (HxWxD) mm
71921	DLR1-04N/160	4/1	160GB	Duplex	100 fields/sec.	4x	Ethernet	46x340x310
71958	DLR1-04N/250	4/1	250GB	Duplex	100 fields/sec.	4x	Ethernet	46x340x310
71931	DLR2-04N/160	4/2	160GB	Duplex	100 fields/sec.	4x	Ethernet	88x430x355
71932	DLR2-04N/320	4/2	320GB	Duplex	100 fields/sec.	4x	Ethernet	88x430x355
71933	DLR2-04N/480	4/2	480GB	Duplex	100 fields/sec.	4x	Ethernet	88x430x355
71923	DLR3-08N/160CD	8/2	160GB	Duplex	100 fields/sec.	8x	Ethernet	88x430x393
71924	DLR3-08N/410CD	8/2	410GB	Duplex	100 fields/sec.	8x	Ethernet	88x430x393
71925	DLR3-08N/660CD	8/2	660GB	Duplex	100 fields/sec.	8x	Ethernet	88x430x393
71926	DLR3-16N/160CD	16/2	160GB	Duplex	100 fields/sec.	16x	Ethernet	88x430x393
71927	DLR3-16N/410CD	16/2	410GB	Duplex	100 fields/sec.	16x	Ethernet	88x430x393
71928	DLR3-16N/660CD	16/2	660GB	Duplex	100 fields/sec.	16x	Ethernet	88x430x393

HIGHLIGHTS

eneo DTR Series

eneo DTR-2009/750CD

Digital Video Recorder (9-Channels), 750GB HDD, CD-RW Drive, Ethernet,230VAC

- MPEG-4 Video Compression / Duplex Operation
- 9 Loop-through Inputs / VGA, Comp./S-VHS Outputs
- Audio and Alarm Inputs / Outputs
- Recording Speed: 100 Fields/Sec. max. (PAL)
- 750Gbyte EIDE HDD's (No HDD extention possible)
- Video Resolution 720x576 Pixels max.
- SCSI Port for Archiving / Memory Extention
- Various Recording Modes
- Secondary Storage / Archiving via USB and CD-RW
- ATM/POS Text Insertion / 2x bis 4x Digital Zoom
- PTZ Control and Remote Control through RS-485 Port
- Ethernet Connectivity / IR Remote Control

Art-No.: 71945

eneo DTR-6016/250CD

Digital Video Recorder (16-Channels), 250GB HDD, CD-RW Drive, Ethernet,230VAC

- MPEG-4 Video Compression / Triplex Operation
- 16 Loop-through Inputs / VGA, Comp./S-VHS Outputs
- Audio and Alarm Inputs / Outputs
- Recording / Playback Speed: 400 Fields/Sec. max.
- Storage Capacity 250GByte (3 HDDs max.)
- Video Resolution 720x576 Pixels max.
- SCSI Port for Archiving / Memory Extention
- Various Recording Modes
- Secondary Storage/Archiving via USB and CD-RW
- ATM/POS Text Insertion / 2x to 4x Digital Zoom
- PTZ Control and Remote Control through RS-485 Port
- Ethernet Connectivity / IR Remote Control

Art-No.: 71929

eneo DTR-2009/250CD

Digital Video Recorder (9-Channels)
250GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No.: 71943

eneo DTR-2009/500CD

Digital Video Recorder (9-Channels)
500GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No.: 71944

eneo DTR-2016/250CD

Digital Video Recorder (16-Channels)
250GB HDD, CD-RW Drive, Ethernet,230VA

Art-No.: 71946

eneo Digital Video Recorders

eneo DTR-2016/500CD

Digital Video Recorder (16-Channels)
500GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No.: 71947

eneo DTR-2016/750CD

Digital Video Recorder (16-Channels)
750GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No.: 71948

eneo DTR-4009/250CD

Digital Video Recorder (9-Channels)
250GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No.: 71949

eneo DTR-4009/500CD

Digital Video Recorder (9-Channels)
500GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No.: 71965

eneo DTR-4009/750CD

Digital Video Recorder (9-Channels)
750GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No.: 71966

eneo DTR-4016/250CD

Digital Video Recorder (16-Channels)
250GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No.: 71951

eneo DTR-4016/500CD

Digital Video Recorder (16-Channels)
500GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No.: 71967

eneo DTR-4016/750CD

Digital Video Recorder (16-Channels)
750GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No.: 71952

eneo DTR-6008/250D

Digital Video Recorder (8-Channels)
250GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No.: 71942

eneo DTR-6008/500CD

Digital Video Recorder (8-Channels)
500GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No.: 71961

eneo DTR-6008/750CD

Digital Video Recorder (8-Channels)
750GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No.: 71962

eneo DTR-6016/500CD

Digital Video Recorder (16-Channels)
500GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No.: 71959

eneo DTR-6016/750CD

Digital Video Recorder (16-Channels)
750GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No.: 71963

Overview eneo DTR Series

Art-No.	Type	Video I/O	Hard Disk Capacity	Operation	Recording Speed max. (PAL)	Multiscreen Display	Transmission via	CD-RW Drive	Dimensions (HxWxD) mm
71943	DTR-2009/250CD	9/1	250GB	Duplex	100 fields/sec.	9x	Ethernet	√	88x430x405
71944	DTR-2009/500CD	9/1	500GB	Duplex	100 fields/sec.	9x	Ethernet	√	88x430x405
71945	DTR-2009/750CD	9/1	750GB	Duplex	100 fields/sec.	9x	Ethernet	√	88x430x405
71946	DTR-2016/250CD	16/2	250GB	Duplex	100 fields/sec.	16x	Ethernet	√	88x430x405
71947	DTR-2016/500CD	16/2	500GB	Duplex	100 fields/sec.	16x	Ethernet	√	88x430x405
71948	DTR-2016/750CD	16/2	750GB	Duplex	100 fields/sec.	16x	Ethernet	√	88x430x405
71949	DTR-4009/250CD	9/2	250GB	Duplex	200 fields/sec.	9x	Ethernet	√	88x430x405
71965	DTR-4009/500CD	9/2	500GB	Duplex	200 fields/sec.	9x	Ethernet	√	88x430x405
71966	DTR-4009/750CD	9/2	750GB	Duplex	200 fields/sec.	9x	Ethernet	√	88x430x405
71951	DTR-4016/250CD	16/2	250GB	Duplex	200 fields/sec.	16x	Ethernet	√	88x430x405
71967	DTR-4016/500CD	16/2	500GB	Duplex	200 fields/sec.	16x	Ethernet	√	88x430x405
71952	DTR-4016/750CD	16/2	750GB	Duplex	200 fields/sec.	16x	Ethernet	√	88x430x405
71942	DTR-6008/250D	8/2	250GB	Triplex	400 fields/sec.	8x	Ethernet	√	88x430x405
71961	DTR-6008/500CD	8/2	500GB	Triplex	400 fields/sec.	8x	Ethernet	√	88x430x405
71962	DTR-6008/750CD	8/2	750GB	Triplex	400 fields/sec.	8x	Ethernet	√	88x430x405
71929	DTR-6016/250D	16/2	250GB	Triplex	400 fields/sec.	16x	Ethernet	√	88x430x405
71959	DTR-6016/500CD	16/2	500GB	Triplex	400 fields/sec.	16x	Ethernet	√	88x430x405
71963	DTR-6016/750CD	16/2	750GB	Triplex	400 fields/sec.	16x	Ethernet	√	88x430x405

Accessories for eneo DLR & DTR Recorders

Art-No.	Type	Description
91922	RAS+	1/3“ Colour Dome Camera, 2.9mm Lens, 12V/24VAC, 350TVL
71902	DXR-MOUSE	USB Mouse for Recorder Series DTR and DLR3
74088	EDC-KBD1	System Keyboard with 3-axis Joystick, 12VDC/230VAC
74092	EDC-KBDM-3	System Keyboard w. Joystick, 5“ Monitor 12VDC/230VAC, Fastrax Protocol
74118	KBD-1	System keyboard with joystick 12VDC/230VAC
71855	HDD-160	Hard Disk Drive 160GB for DLR/DXR/DTR and DCR Series
71857	HDD-250	Hard Disk Drive 250GB for DLR/DXR/DTR and DCR Series
71919	HDD-500	Hard Disk Drive 500GB for DLR/DXR/DTR and DCR Series
71956	HDD-500	Hard Disk Drive 500GB for DPR-2016
71960	SE-S184M/EUBN	CD Writer CD+/-RW, USB 2.0 Interface
71970	TS-H652D	CD/DVD Writer DVD+/-RW 48x/18x, CD/DVD ROM for Built-in DLR-3 and DTR Series
71842	KUSB/128 ENEO	USB Memory Stick 128MB/USB 2.0
71844	KUSB/256	USB Memory Stick 256MB for DLR/DLR2/DXR Videorecorder, USB 1.1/2.0
71906	ERS8-U4R2	RAID Basic System w./o. HDDs, 19“ 2HE, 110-240VAC
71907	HDS722525VLSA8	Hard Disk Drive 250GB for easyRAID System ERS8-U4R2
71909	HDS725050KLA360	Multimode Four-Chann. Video, Bi-Direct. Data Fiber Tx, 1310/850nm, ST Connector

eneo Digital Video Recorders

eneo DPR-2016/500D

Digital Video Recorder (16-Channels), 500GB HDD, Pentaplex, Ethernet,230VAC

- MPEG-4 Video Compression / Pentaplex Operation
- Recording Speed 400 Fields/Sec. max.
- 4 Removable HDDs max., CD/DVD-RW Writer included
- Video Resolution 720x576 Pixels max.
- Real-Time Mirroring
- Motion Detection / Object Tracker
- 16 Loop-through Inputs / VGA, Comp., S-VHS Outputs
- Audio, Alarms and Auxiliary Inputs / Outputs
- RS-232 / RS-485 Interfaces
- Secondary Storage/Archiving via USB and SCSI Ports
- ATM/POS Text Insertion / 2x to 4x Digital Zoom
- Ethernet Connectivity / IR Remote Control

Art-No.: 71955

DPR-2016/500D: High-end Recorder with Pentaplex Operation

The DPR-2016/500D with 16 loop-through channels is the new top model among eneo digital recorders – and its numerous functions target it at professional users. Running on Linux, the recorder delivers high system security and flexibility, and it is also very easy to use. Pentaplex operation allows simultaneous real-time display, recording, playback, backup and remote network access without any loss of performance.

The DPR-2016/500D uses highly efficient MPEG-4 compression and delivers maximum recording speeds of 400 fields per second (PAL). Monitor display is at 25 fields per second (per camera) in real time, and the maximum resolution for display and recording is 720x576 pixels. Playback has a choice of 4-, 3+4-, 9-, 2+8-, 1+12 and 16-channel split views. Automatic multiscreen and alarm notification display are also programmable.

The DPR has a VGA port for PC monitor connection, plus four spot monitor outputs and 16 audio inputs. 12 alarm outputs are available as TTL Open Collector, 4 alarm outputs as relay contacts. Secondary external data storage and RAID systems can be connected via the SCSI ports. A DVD-RW writer is integrated for fast data backup.

Extensive search functions by date, event, text and motion or also the so-called “Museum-Search” turn video data retrieval into child’s play. The DPR-2016 features further include, for instance: standard hard-disk mirroring, three USB 2.0 ports, 2x to 4x digital zoom, two RS-485 interfaces for telemetry control or remote keyboard control, two RS-232 interfaces and Ethernet interface. Operation is user-friendly with jog shuttle.

Overview eneo DPR Series

Art-No.	Type	Video I/O	Hard Disk Capacity	Operation	Recording Speed max. (PAL)	Multiscreen Display	Ethernet	CD/DVD-RW Writer	Dimensions (HxWxD) mm
71955	DPR-2016/500	16/2	500GB	Pentaplex	400 fields/sec.	16x	√	√	177x430x504

Accessories

Art-No.	Type	Description
71950	HDD-250J	Hard Disk Drive 250GB for DPR-2016
71956	HDD-500J	Hard Disk Drive 500GB for DPR-2016
74088	EDC-KBD1	System Keyboard with 3-axis Joystick, 12VDC/230VAC
74092	EDC-KBDM-3	System Keyboard w. Joystick, 5“ Monitor 12VDC/230VAC, Fastrax Protocol
74118	KBD-1	System keyboard with joystick 12VDC/230VAC
71902	DXR-MOUSE	USB Mouse for Recorder Series DTR and DLR3

eneo DCR-16N/250DVD

Digital Video Recorder (16-Channels), 250GB HDD, DVD-RW, Duplex, 230VAC

- MPEG-4 Video Compression / Multitasking
- 16 Video Inputs / VGA, Composite/S-VHS Outputs
- Audio In/Output, Alarm In/Outputs
- Recording/Playback Speed: 200/400 Fields/Sec. max.
- 250Gbyte EIDE HDD (Extentable to 6 HDD max.)
- Video Resolution 640x480 Pixels max. (Recording)
- USB, Parallel, RS-232 and Ethernet Ports
- Programmable Alarm Priorities, Pre-Alarm Recording
- Secondary Storage / Archiving via USB and DVD-RW
- Remote Monitoring, Playback and Configuration
- Supports PTZ and Camera Control
- Ethernet Connectivity

Art-No.: 71954

eneo DCR-32N/250DVD

Digital Video Recorder (32-Channels), 250GB HDD, DVD-RW, Duplex, 230VAC

- MPEG-4 Video Compression / Multitasking
- 32 Video Inputs / VGA, Composite/S-VHS Outputs
- Audio In/Output, Alarm In/Outputs
- Recording/Playback Speed: 200/400 Fields/Sec. max.
- 250Gbyte EIDE HDD (Extentable to 6 HDD max.)
- Video Resolution 640x480 Pixels max. (Recording)
- USB, Parallel, RS-232 and Ethernet Ports
- Programmable Alarm Priorities, Pre-Alarm Recording
- Secondary Storage / Archiving via USB and DVD-RW
- Remote Monitoring, Playback and Configuration
- Supports PTZ and Camera Control
- Ethernet Connectivity

Art-No.: 71918

Overview eneo DCR Series

Art-No.	Type	Video I/O	Hard Disk Capacity	Operation	Recording Speed max. (PAL)	Multiscreen Display	Ethernet	DVD-RW Writer	Dimensions (HxWxD) mm
71954	DCR-16N/250DVD	16/9	250GB	Duplex	200 fields/sec.	16x	√	√	180x440x507
71918	DCR-32N/250DVD	32/10	250GB	Duplex	200 fields/sec.	32x	√	√	180x440x507

Accessories

Art-No.	Type	Description
71857	HDD-250	Hard Disk Drive 250GB for DLR/DXR/DTR and DCR Series
71919	HDD-500	Hard Disk Drive 500GB for DLR/DXR/DTR and DCR Series

eneo Digital Video Recorders

HIGHLIGHT

GL Series

GLR-108/80

Digital IP Recorder (8 Channel), 80Gb, 12VDC/230VAC

- For eneo IP Camera Series ENC-1004L/ENC-501L
- MJPEG Video Compression
- Image Resolution of 720x288 Pixels max.
- Recording Rate: 50 Fields/Sec.
- Integral 80Gbyte Hard Disk (250GB max.)
- Removable Hard Disk up to 250GB max.
- Archiving via Removable Hard Disk (HDD optional)
- SD Memory Card for Storage and Firmware Upgrade
- Audio and Alarm Input and Output
- Pre-Alarm Recording
- Various Recording Modes
- Composite Video Monitor Output

Art-No.: 91536

Overview eneo GLR Series

Art-No.	Type	Video I/O	Hard Disk Capacity	Operation	Recording Speed max.	Multiscreen Display	Ethernet	Dimensions (HxWxD) mm
91536	GLR-108/80	1/2	80GB	Simplex	50 fields/sec.	–	–	89x220x320

Overview eneo Digital Video Recorders

	DSR-01N/80	DSR-04N/80	DLR1-04	DLR2-04	DLR3-08 DLR3-16	DTR-2009 DTR-2016	DTR-4009 DTR-4016	DTR-6008 DTR-6016	DPR-2016 DPR-500	DCR-16N DCR-250	DCR-32N DCR-250DVD
Video Input	1	4	4	4	8 / 16	9 / 16	9 / 16	8 / 16	16	16	32
Video Out Composite	1	1	1	1	2	5	5	5	4	10	10
VGA Out	-	-	√	√	√	√	√	√	√	√	√
Max. Recording Resolution	704 x 288	704 x 240	672 x 272	672 x 272	672 x 272	672 x 272	672 x 272	672 x 272	704 x 576	640 x 480	640 x 480
Max. Recording Speed	50 ips	50 ips	100 ips	100 ips	100 ips	100 ips	200 ips	400 ips	400 ips	200 ips	200 ips
Display Speed	50 ips	50 ips	100 ips	100 ips	400 ips	400 ips	400 ips	400 ips	400 ips	400 ips	400 ips
Object Tracker	-	-	-	-	-	-	-	-	√	√	√
Real Time Mirroring	-	-	-	-	-	-	-	√	√	-	-
CD/DVD Writer	-	-	-	√	√	√	√	√	√	√	√
Jog Shuttle	√	√	-	√	-	√	√	√	√	-	-
Network	√	√	√	√	√	√	√	√	√	√	√
RS-232/485	√	√	√	√	√	√	√	√	√	√	√
USB	-	-	√	√	√	√	√	√	√	√	√
SCSI	-	-	-	-	-	√	√	√	√	optional	optional
Browser Access	-	-	-	-	-	-	√	√	√	√	√
Remote Software	√	√	RASplus	RASplus	RASplus	RASplus	RASplus	RASplus	RASplus	RAS	RAS
Compression	MJPEG	MJPEG	MPEG4	MPEG4	MPEG4	MPEG4	MPEG4	MPEG4	MPEG4	MPEG-4/ ML-JPEG	MPEG-4/ML- JPEG
Operation	Simplex	Simplex	Duplex	Duplex	Duplex	Duplex	Triplex	Triplex	Pentaplex	Duplex	Duplex
Max. Capacity	250GB	250GB	2 TB	2 TB	9 TB	9 TB	9 TB	9 TB	9 TB	9 TB	9 TB
HDD max.	1	1	1	3	3	3	3	3	4 (hot swap)	6	6
Audio In / Out	1 / 1	4 / 1	1 / 1	4 / 1	2 / 1	4 / 1	4 / 1	4 / 1	16 / 1	1 / 1	1 / 1
Alarm In / Out	1 / 1	4 / 1	4 / 2	4 / 2	16 / 2	16 / 16	16 / 16	16 / 16	16 / 16	16 / 18	32 / 32

eneo EMD-15C1/QUAD

Combo System with 15“ Monitor, 4-channel Multiplexer/DVR, 2x Cameras & Minidomes

- 15“ Flat Screen Monitor, Built-in DVR/Multiplexer
- 4x Modular and 4x CVBS Inputs / RJ-45 Network
- Recording: 50 Fields/sec. / Real-time Playback
- Resolution: 720x240 Pixels max. (for Recording)
- Simultaneous Recording & Playback (Duplex)
- Simultaneous Live & Playback in 3x3 Split
- Display: Full, Quad, 9x Split, Zoom, Sequence
- Programmable Day & Night Motion Detection
- Multiple Recording Options / Alarm Management
- Network Funktions: Live / Playback / Search
- 2x 1/4“ Box and Dome Cameras each included
- Acc.: Lenses 8mm, Wall Brackets and System Cables

Art-No.: 90469

eneo EMD-15C3/QUAD

Combo System with 15“ Monitor, 4-channel, Mux/DVR, 1 Dome Camera VKCD-148SC

- 15“ Flat Screen Monitor, Built-in DVR/Multiplexer
- 4x Modular and 4x CVBS Inputs / RJ-45 Network
- Recording: 50 Fields/sec. / Real-time Playback
- Resolution: 720x240 Pixels max. (for Recording)
- Simultaneous Recording & Playback (Duplex)
- Simultaneous Live & Playback in 3x3 Split
- Display: Full, Quad, 9x Split, Zoom, Sequence
- Programmable Day & Night Motion Detection
- Multiple Recording Options / Alarm Management
- Network Funktions: Live / Playback / Search
- 1/4“ Dome Camera with 18m System Cable included

Art-No.: 90474

Video surveillance complete

The EMD-15C1/Quad integrated solution contains more than a monitor with integral multiplexer and digital video recorder, it also includes four colour cameras – two standard and two dome cameras with lenses, as well as corresponding wall mounts and a system cable. In short: the package provides everything needed to install a video surveillance system with plug-and-play. And it comes at an unbeatable price.

The 15” monitor boasts four audio/video inputs (RJ-11 for the supplied system cable or BNC ports for hooking up to existing camera signals). Pictures can be displayed as full frame, quad or 9x split. The duplex-operation recorder allows simultaneous recording and playback as well as simultaneous display of recorded images and live pictures split 3x3 on the screen.

A maximum recording rate of 50 fps delivers smooth video recordings. Picture playback is in real time. The integral motion detector can be programmed specifically for day and night applications. Furthermore, the integral solutions can be connected to any network over its Ethernet port. Also included in the shipping package: RCC remote software for selection and management of several devices. The software can also export the recorded images.

eneo EMD-15C2/QUAD

Combo System with 15“ Monitor, 4-channel Multiplexer/DVR, 1 Camera VKC-1418SC

Art-No.: 90473

eneo EMD-15/QUAD

15“ Monitor, 4-channel Multiplexer/DVR, Basic Unit, 100-240VAC

Art-No.: 90472

eneo VKC-1418SC

1/4“ Colour System Camera, CS, Lens, Wall Bracket, 18m RJ-11 Modular Cable

Art-No.: 92032

eneo VKCD-148SC

1/4“ Colour Dome Camera, Lens 3.6mm, 18m RJ-11 Modular Cable

Art-No.: 92033

eneo VKC-1342SC

1/3“ Colour System Camera, F2.0/3.6mm, Sunshield, 18m Cable, Wallbracket, IP67

Art-No.: 92042

Accessories

Art-No.	Type	Description
90420	EMD-AIB	Alarm/Intercom Box for 4-ch. Multiplexer DVR Combo System EMD

HIGHLIGHTS

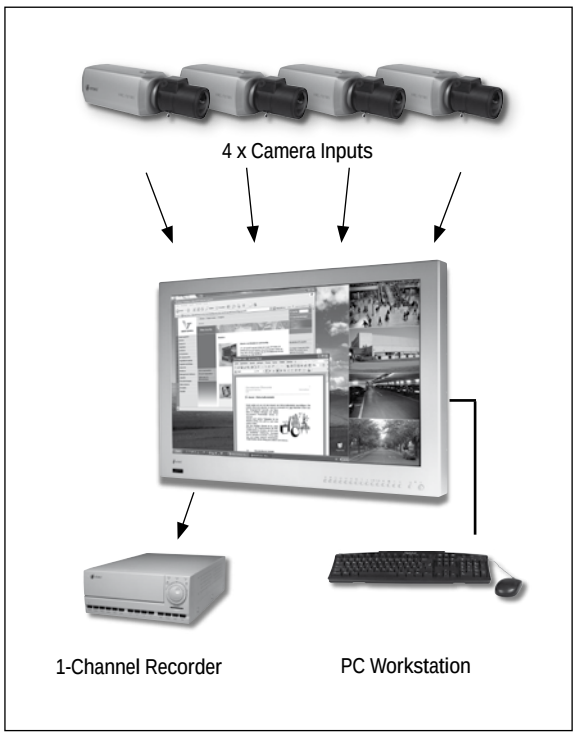
eneo TFT/LCD Monitors

eneo VMC-32LCD-PW

32“ Prof. 16:9 TFT Colour Monitor, 4x CVBS, Y/C, RGB, 2x Audio, 100-240VAC

- Professional LCD/TFT Monitor for PC and Security
- 32“ Display Screen Size f. 16:9(4:3) Image Display
- Built-in 4-channel Real Time Multiplexer
- Switchable PAL/NTSC Selection/Integr. Loudspeakers
- Full and Multi Screen Display/2x Digital Zoom
- Integrated Memory Function for up to 60 Images
- Multiple Language On-screen Menu Driven Set-up
- Resolution of 1280x768 Pixels
- 4x CVBS Inputs, S-Video, VGA, Alarm, Audio Inputs
- Quick Signal Switching
- Supply Voltage: 100 to 240VAC, 50/60Hz
- Rugged Metal Cabinet

Art-No.: 90467



eneo VMC-23LCD-PW1

23“ Prof. 16:9 LCD Colour Monitor, 4x CVBS, Y/C, RGB, 2x Audio, 24VDC/230VAC

Art-No.: 90476

HIGHLIGHTS

eneo TFT/LCD Monitors

eneo VMC-19LCD-CM

19“ (48cm) LCD/TFT Colour Monitor with Stand and PSU, Silvergrey Housing

- 19“ (48.2cm) Display Screen Size
- Multi Language On-screen Menu Control
- Resolution: 1280x1024 Pixels
- CVBS, S-Video, VGA and DVI Input
- PAL/NTSC Auto Selection
- IR-Remote Controller
- Supply Voltage: 12VDC/230VAC
- Various of Applications
- Robust Metal Cabinet
- Desktop Unit with Monitor Stand

Art-No.: 90494

eneo VMC-19LCD-P

19“ LCD Profession. Colour Monitor, 1280x1024Px., Comp., Y/C, RGB, 12VDC/230VAC

- 19“(48cm) Display Screen Size
- PAL/NTSC Auto Selection
- Multi Language On-screen Menu Control
- Resolution: 1280x1024 Pixel (SXGA)
- CVBS, S-Video, VGA and Audio Inputs
- Quick Signal Switching
- Integrated Loudspeakers
- Supply Voltage: 12VDC/230VAC
- Robust Metal Cabinet
- Wall and Table Stand Mounting
- ISO 13406-2 Certified (Ergonomic Standard)
- Options: Table Stand/Mounting Brackets

Art-No.: 90430

eneo VMC-5.6/1-LCD

5,6“ (14,3cm) LCD/TFT Colour Monitor, 320x234 Pixels, 2 Comp., 2 Audio, 12VDC

Art-No.: 90481

eneo VMC-5.6/1S-LCD

5.6“ (14,3cm) LCD/TFT Service Monitor, 320x234 Pixels, 2 comp., 2 Audio, 12VDC

Art-No.: 90482

eneo VMC-8.4LCD-CP

8.4“(21.3cm) LCD/TFT Colour Monitor with Stand and PSU, Silvergrey Housing

Art-No.: 90437

eneo TFT/LCD Monitors

eneo VMC-10.4LCD-CP

10.4"(26.4cm) LCD/TFT Colour Monitor with Stand and PSU, Silvergrey Housing

Art-No.: 90438

eneo VMC-8.4LCD-CM

8.4"(21.3cm) LCD/TFT Colour Monitor with Black Cabinet, 12V/230VAC

Art-No.: 90488

eneo VMC-10.4LCD-CM

10.4" (26.4cm) LCD/TFT Colour Monitor, Black Cabinet, 12V/230V

Art-No.: 90489

eneo VMC-15LCD-CP

15"(38.1cm) LCD/TFT Colour Monitor with Stand, Silvergrey Housing, 12V/230V

Art-No.: 90484

eneo VMC-17LCD-PP

17" LCD Colour Monitor, 1280x1024 Pixels Comp.,Y/C, RGB, 2x Audio, 12VDC/230VAC

Art-No.: 90443

eneo VMC-17LCD-HP

17" LCD Colour Monitor, 1280x1024 Pixels Comp., Y/C, RGB, 12VDC/230VAC

Art-No.: 90507

eneo VMC-19LCD-HP

19" LCD Colour Monitor, 1280x1024 Pixels Comp., Y/C, RGB, 12VDC/230VAC

Art-No.: 90508

eneo VMC-15LCD-CM

15"(38.1cm) LCD/TFT Colour Monitor with Stand and PSU, Silvergrey Housing

Art-No.: 90492

eneo VMC-17LCD-CM

17" (43cm) LCD/TFT Colour Monitor with Stand and PSU, Silvergrey Housing

Art-No.: 90493

eneo VMC-15LCD-P

15“ LCD Professional Colour Monitor,1024 x768, Comp.,Y/C,RGB,2Audio, 12VDC/230VAC

Art-No.: 90392

eneo VMC-17LCD-P

17“ LCD Professional Colour Monitor,1280 x1024,Comp.,Y/C,RGB,2Audio, 12VDC/230VAC

Art-No.: 90393

Overview eneo TFT/LCD Monitors

Art-No.	Type	Display Screen Size	Resolution Pixels	Supply Voltage	OSD Menu	PAL/ NTSC	Inputs CVBS	Y/C	RGB	VGA	Audio	Housing	Dimensions (HxWxD) mm
90481	VMC-5.6/1-LCD	5,6“	320x342	12VDC/230VAC	–	–	√	–	–	–	√	Plastic	133x160x31.4
90482	VMC-5.6/1S-LCD	5,6“	320x234	12VDC	–	–	√	–	–	–	√	Plastic	68x240x156
90437	VMC-8.4LCD-CP	8,4“	800x600	12V/230V	√	√	√	√	√	√	√	Plastic	178.3x223x34.4
90438	VMC-10.4LCD-CP	10,4“	800x600	12V/230V	√	√	√	√	√	√	√	Plastic	202x254x28.8
90488	VMC-8.4LCD-CM	8,4“	800x600	12VDC/230VAC	–	√	√	–	√	√	–	Metal	178.5x214x34.6
90489	VMC-10.4LCD-CM	10,4“	800x600	12V/230V	–	√	√	–	√	√	–	Metal	208x247x34.9
90484	VMC-15LCD-CP	15”	1024x768	12VDC/230VAC		√	√	√	√	√		Plastic	299x381x47.2
90443	VMC-17LCD-PP	17“	1280x1024	12VDC/230VAC	–	√	√	√	√	√	√	Plastic	426x418x196
90507	VMC-17LCD-HP	17“	1280x1024	12VDC/230VAC	√	√	√	√	√	√	-	Plastic	332x382.5x56.7
90508	VMC-19LCD-HP	19“	1280x1024	12VDC/230VAC	√	√	√	√	√	√	-	Plastic	359.5x420x56.7
90492	VMC-15LCD-CM	15”	1024x768	12VDC/230VAC	√	√	√	√	√	√	-	Metal	289x356x44.5
90493	VMC-17LCD-CM	17“	1280x1024	12VDC/230VAC	√	√	√	√	√	√	-	Metal	331x389x46.5
90494	VMC-19LCD-CM	19“	1280x1024	12VDC/230VAC	√	√	√	√	√	√	-	Metal	387.5x435x47.5
90392	VMC-15LCD-P	15“	1024x768	12VDC/230VAC	√	√	√	√	√	√	√	Metal	350x285x44
90393	VMC-17LCD-P	17“	1280x1024	12VDC/230VAC	√	√	√	√	√	√	√	Metal	398x334x50
90430	VMC-19LCD-P	19“	1280x1024	12VDC/230VAC	√	√	√	√	√	√	√	Metal	362x419x54
90476	VMC-23LCD-PW1	23”	1280x768	24VDC/230VAC	–	√	√	√	√	√	√	Metal	385x572x67.2
90467	VMC-32LCD-PW	32”	1360x768	100-240VAC	–	√	√	–	–	–	–	Metal	512x804x97

eneo CRT Monitors

TOP SELLER

CRT Monitors

eneo VMC-15HR/1

15“(38cm) Colour Monitor, Composite, Y/C, Audio Inputs, 650TVL

- 15“ High Resolution Picture Tube
- Resolution of 650 Horizontal Lines
- Automatic PAL/NTSC Selection
- Video/Audio Loop-through Inputs
- Over/Underscan Function
- Built-in Comb Filter
- Built-in Loudspeaker
- Universal Voltage Input: 100 to 240VAC, 50/60Hz
- Detachable Power Cord
- Rugged Metal Housing

Art-No.: 90441

eneo VMC-21/1

21“(53cm) Colour Monitor, Composite, Y/C, Audio Inputs, 500TVL

- 21“ High Resolution Picture Tube
- Resolution of 500 Horizontal Lines
- Automatic PAL/NTSC Selection
- Video / Audio Loop-through Inputs
- Over / Underscan Function
- Built-in Comb Filter
- Built-in Loudspeaker
- Universal Voltage Input: 100 to 240VAC, 50/60 Hz
- Detachable Power Cord
- Rugged Metal Housing

Art-No.: 90442

Work out the ideal Size for your Monitor

The initial factor in choosing monitors is their size, which is given in inches. Our data sheets also show the size in centimetres as well as the full dimensions, if appropriate. The required monitor size depends upon the viewing distance.

General rule:

Screen diagonal in inches x Factor 10 = Viewing distance in centimetres

eneo VMM-9/3

9“ (23cm) B/W Monitor, Dark switch function, 1000 TVL, 90-254VAC

Art-No.: 90338

eneo VMM-12/3

12“ (31cm) B/W Monitor, Dark switch function, 1000 TVL, 90-254VAC

Art-No.: 90339

eneo VMM-14/1

14“ (36cm) B/W Monitor, Dark switch function, 1000 TVL, 90-254VAC

Art-No.: 90439

eneo VMM-17/1

17“ (44cm) B/W Monitor, Dark switch function, 900TVL, 96-264VAC

Art-No.: 90358

eneo VMC-10/2

10“ (25cm) Colour Monitor, 300TVL, 2 composite, 1 Y/C, 1 Audio, 90-254VAC

Art-No.: 90363

eneo VMC-14/2

14“ (36cm) Colour Monitor, 350TVL, 2x composite, 1x Y/C, 1x Audio, 230VAC

Art-No.: 90351

Overview eneo CRT B/W-Monitors

Art-No.	Type	Display Screen Size	Resolution (TVL)	Supply Voltage	Dark Switch Function	Housing	Dimensions (HxWxD) mm
90338	VMM-9/3	9“	> 800	96-264VAC	√	Metal	234x220x248
90339	VMM-12/3	12“	> 800	96-264VAC	√	Metal	287x305x202
90439	VMM-14/1	14“	> 800	198-230VAC	√	Metal	315x328x320
90358	VMM-17/1	17“	900	96-264VAC	√	Metal	385x415x390

eneo CRT Colour Monitors

Art-No.	Type	Display Screen Size	Resolution (TVL)	Supply Voltage	OSD Menu	PAL/ NTSC	Inputs FBAS	Inputs Y/C	Inputs RGB	Inputs Audio	Housing	Dimensions (HxWxD) mm
90363	VMC-10/2	10“	300	90-254VAC	–	√	√	√	–	√	Metal	246x260x338
90351	VMC-14/2	14“	350	230VAC	–	√	√	√	–	√	Metal	330x350x375
90441	VMC-15HR/1	15“	650	100-240VAC	√	√	√	√	–	√	Metal	352x363x364
90442	VMC-21/1	21“	500	100-240VAC	√	√	√	√	–	√	Metal	478x490x450

Mounts for TFT/LCD Monitors

eneo VMC-LCD/WMB-3

Wall Mount Bracket, Pan and Tiltable for LCD Monitors

Art-No.: 90448

eneo LCD-ST/PW23

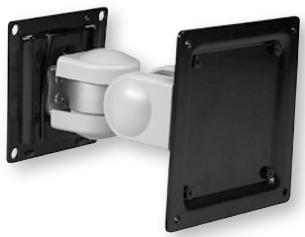
Desktop Mount for 23“ LCD Monitor Series VMC-23LCD-PWx, Aluminium Finish

Art-No.: 90477

eneo VMC-LCD/WCMB-1

Wall/Ceiling Bracket for LCD Monitors 15“/17“/19“ P/PT/D Series

Art-No.: 90394



eneo VMC-LCD/WMB-4

Wall Bracket for LCD Monitors up to 23“, Pan and Tiltable

Art-No.: 90468

eneo LCD-ST/P

Desktop Mount for LCD Monitor VMC-15/17/19, P Series

Art-No.: 90395

eneo LCD-ST/PW

Desktop Mount for LCD/Plasma Monitors >30“, PW(A) Series, Aluminium Finish

Art-No.: 90464

eneo VMC-LCD/CMB-1

Ceiling Mount Bracket, Pan and Tiltable for LCD Monitors 19“ to 30“

Art-No.: 90449

Overview Mounts for TFT/LCD Monitors

	Art-No.	Type	Description
n. illustr.	90448	VMC-LCD/WMB-3	Wall Mount Bracket, Pan and Tiltable for LCD Monitors
	90426	VMC-LCD/WMB-1	Wall Bracket for TFT/LCD Monitors, straight
	90394	VMC-LCD/WCMB-1	Wall/Ceiling Bracket for LCD Monitors 15“/17“/19“ P/PT/D Series
	90468	VMC-LCD/WMB-4	Wall Bracket for LCD Monitors up to 23“, Pan and Tiltable
	90491	LCD-ST/CM1	Desktop Mount for LCD Monitor VMC-8.4 and VMC-10.4, CM Series
	90395	LCD-ST/P	Desktop Mount for LCD Monitor VMC-15/17/19, P Series
	90477	LCD-ST/PW23	Desktop Mount for 23“ LCD Monitor Series VMC-23LCD-PWx, Aluminium Finish
	90464	LCD-ST/PW	Desktop Mount for LCD/Plasma Monitors >30“, PW(A) Series, Aluminium Finish
n. illustr.	90453	VMC-LCD/8-10MP	Adapter Plate for Wall Bracket Fixing to VMC-8.4/10.4LCD-CP Series
n. illustr.	90449	VMC-LCD/CMB-1	Ceiling Mount Bracket, Pan and Tiltable for LCD Monitors 19“ to 30“
n. illustr.	90485	VMC-LCD/CMB-2	Ceiling Mount Bracket, Pan and Tiltable for LCD Monitors from 23“
n. illustr.	90396	LCD-15P-RMK	19“ Kit for 15“ LCD Monitor (VMC-15LCD-P)
n. illustr.	90397	LCD-17P-RMK	19“ Kit for 17“ LCD Monitor (VMC-17LCD-P)
n. illustr.	90475	LCD-19P-RMK	19“ Kit for 19“ LCD Monitor (VMC-19LCD-P)

Mounts for CTR Monitors

eneo W-71

Wall Mount Monitor Hanger for Monitor
410mm-690mm Height, 600mm-990mm Width

Art-No.: 20071

eneo D-71

Ceiling Mount Monitor Hanger for Monitor
410mm-690mm Height, 600mm-990mm Width

Art-No.: 20072

eneo WM-52/500

Wall Mount Monitor Hanger for Monitor
500mm Width, 270mm Depth

Art-No.: 20213

Overview Mounts for CRT Monitors

	Art-No.	Type	Monitor (Height/Width/Depth)	Mounting	Load Capacity	Material	Colour	Weight
	20071	W-71	410-690/600-990/–mm	Wall	75kg	Metal	black	17kg
n. illustr.	20011	W-61	370-570/500-840/–mm	Wall	75kg	Metal	black	14kg
n. illustr.	20031	W-41	280-470/330-550/–mm	Wall	75kg	Metal	black	13kg
n. illustr.	20051	W-31	200-350/200-350/–mm	Wall	75kg	Metal	black	10.5kg
	20072	D-71	410-690/600-990/–mm	Ceiling	75kg	Metal	black	17kg
n. illustr.	20021	D-61	370-570/500-840/–mm	Ceiling	75kg	Metal	black	14kg
n. illustr.	20041	D-41	280-470/330-550/–mm	Ceiling	75kg	Metal	black	13kg
n. illustr.	20061	D-31	200-350/200-350/–mm	Ceiling	75kg	Metal	black	10.5kg
	20213	WM-52/500	–/500/270mm	Wall	18kg	Metal	black	5.5kg
n. illustr.	20212	WM-52/315	–/315/270mm	Wall	12kg	Metal	black	4.5kg

Accessories

Art-No.	Type	Description
20110	BD-1	Mounting Kit for Ceiling Mount Monitor Hangers D31/D41/D61/D71
20070	BW-1	Mounting Kit for Wall Mount Monitor Hangers W31/W41/W61/W71

eneo EMD-15C1/QUAD

Combo System with 15“ Monitor, 4-channel Multiplexer/DVR, 2x Cameras & Minidomes

- 15“ Flat Screen Monitor, Built-in DVR/Multiplexer
- 4x Modular and 4x CVBS Inputs / RJ-45 Network
- Recording: 50 Fields/sec. / Real-time Playback
- Resolution: 720x240 Pixels max. (for Recording)
- Simultaneous Recording & Playback (Duplex)
- Simultaneous Live & Playback in 3x3 Split
- Display: Full, Quad, 9x Split, Zoom, Sequence
- Programmable Day & Night Motion Detection
- Multiple Recording Options / Alarm Management
- Network Funktions: Live / Playback / Search
- 2x 1/4“ Box and Dome Cameras each included
- Acc.: Lenses 8mm, Wall Brackets and System Cables

Art-No.: 90469

eneo EMD-15C3/QUAD

Combo System with 15“ Monitor, 4-channel Mux/DVR, 1 Dome Camera VKCD-148SC

- 15“ Flat Screen Monitor, Built-in DVR/Multiplexer
- 4x Modular and 4x CVBS Inputs / RJ-45 Network
- Recording: 50 Fields/sec. / Real-time Playback
- Resolution: 720x240 Pixels max. (for Recording)
- Simultaneous Recording & Playback (Duplex)
- Simultaneous Live & Playback in 3x3 Split
- Display: Full, Quad, 9x Split, Zoom, Sequence
- Programmable Day & Night Motion Detection
- Multiple Recording Options / Alarm Management
- Network Funktions: Live / Playback / Search
- 1/4“ Dome Camera with 18m System Cable included

Art-No.: 90474

Video surveillance complete

The EMD-15C1/Quad integrated solution contains more than a monitor with integral multiplexer and digital video recorder, it also includes four colour cameras – two standard and two dome cameras with lenses, as well as corresponding wall mounts and a system cable. In short: the package provides everything needed to install a video surveillance system with plug-and-play. And it comes at an unbeatable price.

The 15” monitor boasts four audio/video inputs (RJ-11 for the supplied system cable or BNC ports for hooking up to existing camera signals). Pictures can be displayed as full frame, quad or 9x split.

The duplex-operation recorder allows simultaneous recording and playback as well as simultaneous display of recorded images and live pictures split 3x3 on the screen. A maximum recording rate of 50 fps delivers smooth video recordings. Picture playback is in real time. The integral motion detector can be programmed specifically for day and night applications. Furthermore, the integral solutions can be connected to any network over its Ethernet port. Also included in the shipping package: RCC remote software for selection and management of several devices. The software can also export the recorded images.

eneo EMD-15C2/QUAD

Combo System with 15“ Monitor, 4-channel Multiplexer/DVR, 1 Camera VKC-1418SC

Art-No.: 90473

eneo EMD-15/QUAD

15“ Monitor, 4-channel Multiplexer/DVR, Basic Unit, 100-240VAC

Art-No.: 90472

eneo VKC-1418SC

1/4“ Colour System Camera, CS, Lens, Wall Bracket, 18m RJ-11 Modular Cable

Art-No.: 92032

eneo VKCD-148SC

1/4“ Colour Dome Camera, Lens 3.6mm, 18m RJ-11 Modular Cable

Art-No.: 92033

eneo VKC-1342SC

1/3“ Colour System Camera, F2.0/3.6mm, Sunshield, 18m Cable, Wallbracket, IP67

Art-No.: 92042

Accessories

Art-No.	Type	Description
90420	EMD-AIB	Alarm/Intercom Box for 4-ch. Multiplexer DVR Combo System EMD

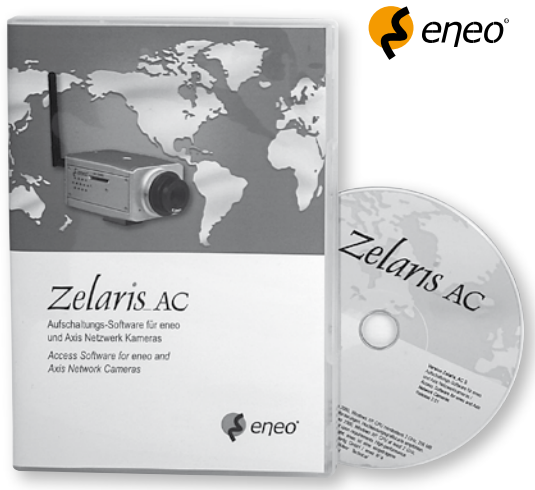
eneo Zelaris_AC S

Surveillance Software for Network Cameras from Eneo, Axis

- Automatic Entrance and Barrier Surveillance
- For Network Components from eneo and Axis
- Notification by Alarm Contacts or Motion Alarming
- Pure Software Solution
- Automatic PC Processing and Recording
- Bi-directional Audiotransmission
- Available Protocols: TCP/IP, FTP and SMTP

Art-No.: 76011

System Requirements
PC Platform Windows 2000, Windows XP. CPU at least 2 GHz, 256 MB RAM. Hard disk capacity dependant upon requirements. High-performance graphics card recommended.



Zelaris_AC

Zelaris_AC Surveillance Software

Zelaris_AC is access software used to automatically display live images from eneo and Axis network cameras on PC monitors when an alarm triggers. A video door intercom system, for instance, can operate as follows: The doorbell is connected to the alarm input contact, so when it is pressed a video picture is shown in a popup on the PC monitor. The integral microphone in the connected components is enabled when the audio button incorporated in the software is enabled. A door opener can be activated when the alarm output contact is actuated, i.e. via the Action button in the software screen menu. Furthermore, Zelaris_AC provides the options of saving single frames on the PC's hard disk, plus PTZ control (providing this is supported by the connected components). Zelaris_AC can also be configured as a client-server application.

eneo Zelaris_AC Surveillance Software

Art-No.	Type	Description
76011	ZELARIS AC S	Surveillance Software for Network Cameras from Eneo, Axis
76012	ZELARIS AC C	Client Software for Zelaris_AC S
76023	ZELARIS AC SMO	Site Map Option for Zelaris_AC S
76024	ZELARIS AC PDA	PDA Client Option for Zelaris_AC S
76027	ZELARIS_AC VIEW	Alarm Playback Option for Zelaris_AC

eneo Management Software

HIGHLIGHT

Management Software

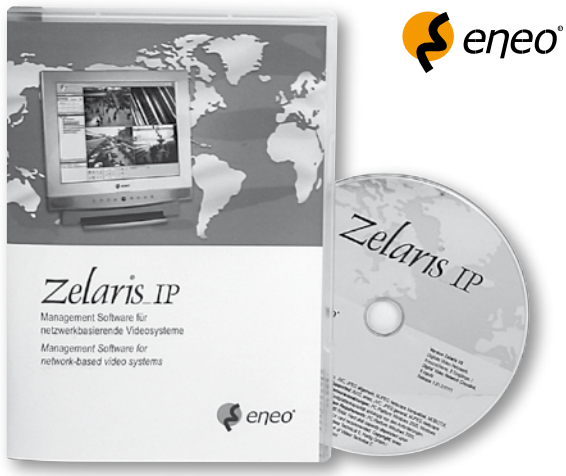
eneo Zelaris_IP

Specifications

- Live display, recording, playback & alarm handling of different video sources and manufacturers
- Up to 64 local inputs for digital video sources
- Up to 25 different video sources on one screen
- Motion Detection for each channel individual
- Supports PTZ functionality and contact outputs (depending on hardware source)
- Recording format MJPEG (external back up possible)
- Different update rates from 1ips/sec. up to 25ips/sec. individual adjustable for each channel
- System Logs and archiving reports, supports SQL-data archive
- Supports multiple monitor applications
- Optional integration of site maps (optional)
- Optional server-/client structure for up to 64 video server with up to 64 individual video sources
- Optional interface OPC-DA 2 for system integration in building management solutions

System Requirements
PC Platform Windows 2000, Windows XP. CPU at least 2 GHz, 256 MB RAM. Hard disk capacity dependant upon requirements. High-performance graphics card recommended.

Video Systems Currently Supported
AXIS, eneo, JVC, JPEG general, MJPEG Netscape compatible, MOBOTIX, Panasonic, SONY



Zelaris_IP

Overview eneo Zelaris_IP Management Software

Art-No.	Type	Description
76001	ZELARIS V8	Video management software for up to 8 different network cameras/encoder for small to middle size applications, displaying, recording, alarm handling, motion controlling and playback of recorded images
76002	ZELARIS V16	Video management software for up to 16 different network cameras/encoder for small to middle size applications, displaying, recording, alarm handling, motion controlling and playback of recorded images
76003	ZELARIS VC	Video management software for network cameras/encoder integrated matrix functionality for up to 64 video inputs to 25 video outputs. Interface for SQL-data archive. Displaying, recording, alarm handling, motion controlling and playback of recorded images. Up to 80 different preconfigured multi screen designs possible
76004	ZELARIS S8	Video management software with integrated server license for up to 8 different network cameras/encoder only in combination with Zelaris video client
76005	ZELARIS S8E	Extension software for Zelaris Server 8 with integrated server license for additional 8 camera/encoder only in combination with Zelaris Server 8
76006	ZELARIS S64	Video management software for network cameras/encoder with integrated license for up to 64 sources only in combination with Zelaris video client server
76047	ZELARIS_IP HL1	Control Center SW 1000 for Zelaris Server/Video Client, USB 2.0 Dongle
76035	ZELARIS_IP HL4	Control Center SW 4000 for Zelaris Server/Video Client, USB 2.0 Dongle
76007	ZELARIS MA	System extension for Zelaris Server and Video Client for displaying of maps and 1 interface for automation systems
76008	ZELARIS MA PRO	System extension for Zelaris Server and Video Client for displaying of maps and 1 interface for automation systems (unlimited version for integration of OPC sub systems

eneo KBD-1

System keyboard with joystick
12VDC/230VAC

Art-No.: 74118

Overview Accessories for eneo Zelaris_IP Management Software

Art-No.	Type	Description
76041	ZEL DC7700DC1	Minitower DC7700, Video Client, 250+80GB 2GB RAM, DVD, Zelaris SW/Basic Install.
76042	ZEL DC7700D1	Minitower DC7700, Video Server, 250+80GB 2GB RAM, DVD, Zelaris SW/Basic Install.
76043	ZEL DC7700D2	Minitower DC7700, Video Server, 500+80GB 2GB RAM, DVD, Zelaris SW/Basic Install.
76044	ZEL DC7700D3	Minitower DC7700, Video Server, 1TB+80GB 2GB RAM, DVD, Zelaris SW/Basic Install.
76045	ZEL DC7700D4	Minitower DC7700, Video Server, 1.5TB 2GB RAM, DVD, Zelaris SW/Basic Install.
76214	VIDEUM 4400VO	Video Capture Card for Video Surveillance Applications
76215	HDD-250GB S-ATA	Hard Disk Drive 250GB for DC7700 Mini Tower
76216	HDD-500GB S-ATA	Hard Disk Drive 500GB for DC7000 Mini Tower
76229	HDD-750GB S-ATA	Hard Disk Drive 750GB for DC7000 Mini Tower
76231	DC7700-SE	3-year Service for HP DC7700 Systems
76022	S-PRO V.2	Multi-button Jog & Shuttle Multimedia Controller
74118	KBD-1	System keyboard with joystick 12VDC/230VAC
76032	APC SERV PXCONT	OPC Server PxContact for one Alarm Module FL IL24BK-B-PAC
76036	OPC SERV ZALARM	OPC Server for Zelaris-IP Control of Central Stations
74115	OPC-PELCO KBD	OPC Software Module for Pelco Keyboards KBD100, KBD200A, KBD300A

eneo Management Software

User Profile

A maximum of 80 different User Profiles can be stored and retrieved here, such as selection and view of signal sources.

Camera Selection

Drag and drop to pull the cameras listed here into the monitor window on the right. You can also select cameras and monitors with an external keyboard.

Monitor Window

Up to 25 cameras can be shown at the same time. Mixed live and replay mode is possible and easy, as is alarm picture display.

Console

The button is operated intuitively so that you can access the Alarm Archive, export video sequences and, of course, manage all replay modes as well as PTZ control.

Alarm Display

An alarm is listed immediately whenever it is reported by a camera or the motion detector integrated in the software. The alarm sequence can then be played back at the click of a mouse.

For network based video systems

eneo delivers Zelaris_IP, a software solution used for management, control and recording of different systems on one screen. Zelaris_IP is structured in the same way as a video matrix and offers up to 64 inputs and 25 outputs. Each input can be assigned to an IP-based video source and configured for resolution, quality and frame rate. Functionalities such a pan/tilt control along with digital inputs and outputs are also supported for various products. Each input is equipped with its own motion detector which can undertake a series of subsequent actions such as recording or picture display. Each channel has a highly available and crash-resistant image memory for recording video signals, which allows specific records to be stored externally on freely configurable hard disks or data servers.

The 25 outputs are organised as freely positionable video windows, to which video signals are freely assigned by the user or events. Manual picture display is performed by selecting a video source in a tree structure or an optionally available graphic screen. Automatic picture display is triggered by different events such as contact inputs, motion detection or even by an external system by using the optionally available OPC-interface. Events are stored in an internal alarm list or on external database servers. eneo Zelaris_IP can be enlarged to be a client/server-based solution for use in large surveillance systems. The use of up to 64 video servers allows networks of up to 4096 video sources and 1500 outputs to be configured, in which the network load is distributed to the servers.

RAPPORT 337

Multifunctional CCTV Tester

- CCTV Video Field Monitor / Video Signal Generator
- Controller for PTZ Cameras / PTZ Protocol Analyzer
- Multi Protocol Support
- UTP Cable Tester (Direct & Cross Cable)
- Digital Multimeter

Art-No.: 88152

Rapport 337: Multifunctional CCTV Tester

As a handy and portable device designed for testing various appliances, for the image-output equipments to be installed, Rapport337 is an efficient tester with useful testing functions, to assist the installation of CCTV, UTP test, communications test, RS-485 communications inspection, etc. Main functions:

- The video signal and the quality of picture can be tested, and brightness, color and focus can also be adjusted while the image is being watched.
- Video signal generator mode: It outputs color bar Red,Blue and Green screen to allow technician to inspect video monitor or DVR.
- The basic operational test of PTZ, and other tests of focus and image checkup, etc. that are needed for the installation of PTZ are possible.
- PTZ Protocol Analyzer
- The wiring condition (disconnected, shorted) of UTP cable can be checked out.
- Voltage, current, resistance, short-test can be tested.

eneo VT-PS12DC-6

Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, w. Open Ends

Art-No.: 70448

eneo VT-PS12DC-5

Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, with DC Plug

Art-No.: 70447

Power Supplies & Connector Boxes

eneo NE-128

Voltage supply unit 230V/24VAC-5A, IP66

Art-No.: 70449

eneo VT-PS12DCDT

PSU 12VDC/0,5A, Regulated, Desktop Version, 1.8m Cable each w. open ends

Art-No.: 77772

eneo AK-2

Camera Connection Box for Standard and Ethernet Cameras

Art-No.: 70456

eneo AK-3

Camera Connection box, 230VAC Input 24VAC-100W, 12VDC-1A Output

Art-No.: 70457

Overview Power Supplies & Connector Boxes

	Art-No.	Type	Description
	70448	VT-PS12DC-6	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, w. Open Ends
	70447	VT-PS12DC-5	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, with DC Plug
n. illustr.	70243	615PS-1	Power Supply Unit 230VAC/13,8VDC (850mA) stabilized
n. illustr.	73844	FW7362/12	Plugable AC/DC Adapter 100-240V/12VDC-2.5A, Regulated
	70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66
n. illustr.	77779	VT-PS12DC-UK	Power Supply Unit w. UK Mains plug-in, 100-240VAC/12VDC-1.0A, Regul., open Ends
	77772	VT-PS12DCDT	PSU 12VDC/0,5A, Regulated, Desktop Version, 1.8m Cable each w. open ends
	70457	AK-3	Camera Connection box, 230VAC Input 24VAC-100W, 12VDC-1A Output
	70456	AK-2	Camera Connection Box for Standard and Ethernet Cameras
	88152	RAPPORT 337	Multifunctional CCTV Tester

eneo B/1

BNC Crimp Plug for Cable RG59U

Art-No.: 87190

eneo B/2

BNC Crimp Female Plug for Cable RG59U

Art-No.: 87193

eneo B/0.37

BNC Crimp Plug for Cable „0.37“

Art-No.: 87195

eneo B/0.37K

BNC Crimp Cable Socket for Cable „0.37“

Art-No.: 87196

eneo B/0.6/2.8 AF GG

BNC Crimp Plug up to 270 Mb/s

Art-No.: 87198

eneo K-0.37/SW

Safety Cable Bush for BNC and PL Crimp Plugs „0.37“

Art-No.: 87197

eneo Z/UB

Crimp Tool for PL and BNC Plugs

Art-No.: 87200

eneo A-3F

Coax Cable Stripper, 3-Size Self Adjustable

Art-No.: 86271

Overview BNC Plugs/Sockets & Tools

	Art-No.	Type	Description
n. illustr.	87204	B/0.42	BNC Crimp Plug for Cable #87404 („0,42“)
	87190	B/1	BNC Crimp Plug for Cable RG59U
	87193	B/2	BNC Crimp Female Plug for Cable RG59U
	87195	B/0.37	BNC Crimp Plug for Cable „0.37“
	87196	B/0.37K	BNC Crimp Cable Socket for Cable „0.37“
	87198	B/0.6/2.8 AF GG	BNC Crimp Plug up to 270 Mb/s
n. illustr.	87210	K/1	Safety Cable Bush for BNC and PL Crimp Plugs
	87197	K-0.37/SW	Safety Cable Bush for BNC and PL Crimp Plugs „0.37“
n. illustr.	87217	K 0.6/2.8 SW	Safety Cable Bush for BNC 0.6/2.8
	87200	Z/UB	Crimp Tool for PL and BNC Plugs
	86271	A-3F	Coax Cable Stripper, 3-Size Self Adjustable

A/V System & Component Cables

Overview Audio/Video System & Component Cables

Art-No.	Type	Description
87404	MCAB-1	Camera/PT Head Connecting Cable f. Video Power, RS-Control or Network, 1 Metre
86350	100	Coaxial Video Cable w. Rigid Center Core 100m
86340	200	Coaxial Video Cable w. Rigid Center Core 200m
86342	500	Video Cable 500m
86341	1000	Video Cable 1000m
86380	100F	Coaxial Video Cable with Flexibel Center Core, 100M
87442	0.6/2.8 AF/100M	Video cable for 270 Mb/s PVC
87444	0.6/2.8 AF/500M	Video cable for 270 Mb/s PVC
87445	0.6/2.8 AF/1000	M Video cable for 270 Mb/s PVC
87446	0.6/2.8 AF 500M	Video cable for 270 Mb/s FRNC
87447	0.6/2.8 AF 1000	M Video cable for 270 Mb/s FRNC
86440	BB-90	Video Cable BNC Plug to BNC Plug, Length 0.9m
86450	BB-300	Video Cable BNC Plug to BNC Plug, Length 3.0m
86460	BB-750	Video Cable BNC Plug to BNC Plug, Length 7.5m
87416	MRGB-3M	RGB Coax Video Cable, 3 Wires
87417	MRGB/2S-5R	Video Cable 5 Wires, 100m
87418	MRGB/2S-5M	Videokabel 5 Wires
87423	S-VHSM-CM	S-VHS Video Cable, 2 Coax Wires, 1.0m
87426	A 2002-S/M	Audio Micro Cable, Flexibel, Black

eneo E4JCM

4-Pin S-VHS Female Socket for Centrical Hole

Art-No.: 85126

eneo B-BLCM

BNC Jack to Jack Chassis

Art-No.: 85530

eneo BJ-CMV

BNC Chassis Mount Jack, Fully Isolated

Art-No.: 85360

eneo A80

Eiaj 20Pin Jack Cable End

Art-No.: 84390

eneo A19

BNC Jack-Plug-Jack Adapter, T-Shaped

Art-No.: 80270

eneo A21

BNC Jack to Jack Adapter, Straight

Art-No.: 80220

eneo A14

BNC Jack/Cinch Plug Adapter

Art-No.: 83450

eneo A25

BNC Plug/Cinch Jack Adapter

Art-No.: 83480

eneo XLR-3 KS

Cable Plug NC3MX

Art-No.: 84507

Video/Audio Plugs, Adapters

eneo XLR-3 KB

Kabel Jack NC3FX

Art-No.: 84508

Overview Video/Audio Plugs, Adapters

	Art-No.	Type	Description
	85126	E4JCM	4-Pin S-VHS Female Socket for Centrical Hole
n. illustr.	85510	BJ-CM	BNC Chassis Socket
	85530	B-BLCM	BNC Jack to Jack Chassis
	85360	BJ-CMV	BNC Chassis Mount Jack, Fully Isolated
	84390	A80	BNC Angled Jack to Jack Adapter
	80270	A19	BNC Jack-Plug-Jack Adapter, T-Shaped
	80220	A21	BNC Jack to Jack Adapter, Straight
	83450	A14	BNC Jack/Cinch Plug Adapter
	83480	A25	BNC Plug/Cinch Jack Adapter
	84507	XLR-3 KS	Cable Plug NC3MX
	84508	XLR-3 KB	Kabel Jack NC3FX
n. illustr.	84500	XLR-4 KS	Cable Plug NC4MX
n. illustr.	84501	XLR-4 KB	Kabel Jack NC4FX

Service

Art-No.	Type	Description
73231	VPT/HZ-MON	Assembling of Heater Kit in VPT40/41/42/51
78120	KAM/OBJ/WSG-MON	Camera lens assembly in standard weatherproof housing
78140	KAM/OBJ/MONT	Camera/Lens adjustment/Back Focal Length

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General Terms and Conditions of VIDEOR TECHNICAL E. Hartig GmbH

as of 1 January 2007

1. General

1.1 The below-listed general terms and conditions of Videor Technical E. Hartig GmbH (hereinafter VTEH) apply to business transactions with VTEH if the party ordering is an entrepreneur as defined by Art. 14, BGB (German Civil Code) or a legal entity or separate estate under public law.

1.2 These General Terms and Conditions of VTEH shall apply exclusively. Any dif-fering, conflicting or supplemental terms and conditions of the party ordering shall only become part of the contract if and to the extent VTEH has given its express written consent. This requirement of consent applies in any case, even if VTEH executes a delivery without reservation in spite of being aware of the general terms and conditions of the party ordering.

1.3 The party ordering is bound to his/her offer of contract for 3 weeks.

1.4 The contract will come into effect when VTEH confirms acceptance thereof in writing or effects performance or delivery within the deadline.

1.5 VTEH reserves its exploitation rights without restriction on all proprietary and copyrighted cost estimates, drawings and other documents (hereinafter referred to as documentation). The documentation may only be made accessible to third parties with the prior consent of VTEH and must be returned to VTEH without delay on request if VTEH is not granted the contract.

1.6 The party ordering has the non-exclusive right to use standard software with the agreed performance characteristics in unaltered form on the agreed hardware. The party ordering is entitled to make back-up copies without any explicit agreement to this effect.

1.7 All agreements, collateral agreements, provisos, amendments and supplements to the contract must be recorded in writing in the interest of conservation of evidence.

2. Prices

2.1 Prices are subject to change unless fixed prices have been agreed. The VTEH prices valid on the day of delivery or performance in accordance with the VTEH price lists shall apply ex VTEH delivery stores.

2.2 All prices are without discounts or any other deductions plus value-added tax at the rate valid on the date of delivery or performance.

2.3 The costs of packaging, loading and shipping from the VTEH delivery stores are at the expense of the party ordering. When delivering goods upon which duty has not been paid, the party ordering must pay the charges levied by the customs authorities and any related costs.

3. Terms of Payment

3.1 With the exception of agreements made expressly to the contrary, payment is always due at the latest when the purchased items are picked up or, in the event of shipment, when they are handed over to the freight forwarder or carrier.

3.2 All payments must be made in cash without any deductions at a VTEH paying office. Only VTEH cash desks are entitled to take receipt of money. Any credit transfers may only be made to accounts held by VTEH. VTEH sales personnel do not have collection authority.

3.3 VTEH reserves the right to refuse bills of exchange or cheques. Bills of exchange or cheques will only be accepted by way of payment and without any guarantee of punctual submission or timely protest. All cheque and bill of exchange fees and costs are at the expense of the party ordering and are due for immediate payment to VTEH.

3.4 If the party ordering is in default of all or parts of his/her payments and if mature bills of exchange in particular are not honoured in time or cheques not cashed upon presentation, VTEH can accelerate maturity of all claims arising from the business relationship with advance notice of one week. This also applies to bills of exchange with later maturity. All demands for payment made by VTEH which arise from the business relationship will become due for immediate payment without advance notice if the party ordering discontinues his/her payments or if an application is made to open insolvency proceedings against his /her assets.

3.5 The party ordering has no rights of offsetting or retention unless his/her counterclaims have not been contested by VTEH or established finally and absolutely.

4. Delivery – Delayed Delivery

4.1 In the interest of conservation of evidence, delivery times and deadlines must be agreed to in writing. With the exception of agreements made expressly to the contrary, all details of delivery times and deadlines are non-binding only and are subject to the proviso of complete and prompt delivery to VTEH by advance suppliers.

4.2 If delivery times and deadlines which have been agreed in a non-binding manner are exceeded by more than 6 weeks, the party ordering can demand in writing that VTEH make delivery within an appropriate space of time. VTEH will be considered to be in default once the deadline set in this way has expired without performance.
VTEH can only be held liable for damage due to delays to the extent outlined in Section 9, below.

4.3 The prerequisite for VTEH's compliance with dates and deadlines is correct and punctual fulfillment of all obligations by the party ordering. This includes in particular compliance with the agreed terms of payment and the timely receipt of all documentation, any necessary licenses and the release authorization of plans in particular to be delivered by the party ordering.

4.4 Partial deliveries by VTEH are permissible as long as they can be reasonably expected of the party ordering.

4.5 Instances of force majeure entitle VTEH to postpone delivery for the duration of the obstruction plus an appropriate restart period. If it becomes unreasonable for either party to fulfil the contract, that party may withdraw from the contract to that extent. Force majeur is considered to be all circumstances which make it considerably more difficult or impossible for VTEH to make delivery, such as currency, trading policy or other sovereign measures, strikes, lock outs, operational disturbances (e.g. fire, mechanical breakdown, raw material or energy shortages) as well as transport route obstructions, irrespective of whether these circumstances occur at VTEH, a supplier's plant or a VTEH subcontractor.

4.6 The right is reserved by the manufacturer to make alterations to the construction, shape, colour shade and scope of delivery throughout the delivery period, provided that the purchased item is not significantly altered and the alterations can be accepted as reasonable by the party ordering. No rights can be asserted against VTEH for the use of type codes or numbers for the purchased item.

5. Acceptance/Shipment – Transfer of Risk

5.1 The party ordering is obliged to make acceptance of the purchased item within 8 days of receipt of notification of availability or a shipping order. Shipment is made in the name, at the expense and at the risk of the party ordering. VTEH is entitled to charge flat-rate freight costs to cover freight expenses.

5.2 If the party ordering fails to make acceptance of the purchased item within 2 weeks of receipt of notification of availability, VTEH can set the party ordering a deadline of 8 days in writing. Once this deadline has expired without action, VTEH is entitled to withdraw from the purchase contract by means of a written declaration to this effect and/or claim damages in place of performance. If VTEH claims damages in place of performance, this will amount to 20 % of the purchase price. Both parties reserve the right to provide evidence of major or minor damage.

5.3 If the purchased item is to be shipped and no agreements to the contrary have been made, it is left over to VTEH to select the transport mode and route. If the wrong selection is made, VTEH can only be held liable to the extent outlined in Section 9, below.

5.4 VTEH is entitled but not obliged to take out transport insurance on behalf and for the account of the party ordering unless the party ordering contradicts insurance of this kind.

5.5 The risk, including that of accidental loss or deterioration of the purchased item, is transferred from VTEH to the party ordering upon expiry of the availability deadline or, if shipped, as soon as the purchased item is delivered to the freight forwarder or carrier, but at the latest as soon as it leaves the VTEH delivery store, irrespective of whether shipment is made from the place of performance or freight paid.

5.6 The party ordering is not entitled to refuse receipt of the purchased item due to irrelevant defects.

6. Retention of Title

6.1 The delivered goods (hereinafter referred to as reserved goods) will remain the property of VTEH until complete payment of the purchase price has been made and all other claims made by VTEH in connection with the transaction (e.g. bill of exchange costs, financing costs, interest, repair and conversion costs) have been settled.

6.2 For VTEH, as the manufacturer as defined by Art. 950, BGB, the handling and processing of the reserved goods does not put VTEH under any obligation. If the party ordering processes the goods along with other goods that do not belong to VTEH, VTEH is entitled to co-ownership of the manufactured object in the ratio of the invoice value of the processed reserved goods to the sum of the invoice values of all other goods used in the manufacturing process. If reserved goods are mixed or connected with other objects, thus bringing about the expiry of VTEH's ownership of the reserved goods (Arts. 947, 948, BGB), it is regarded as agreed even now that the party ordering's ownership share in the mixed item or uniform object will be passed on to VTEH to the extent of the invoice value of the reserved goods and that the party ordering will safeguard these goods for VTEH with the diligence of a prudent businessman.
The objects created through processing, connection or mixing are reserved goods as defined by these general terms and conditions.

6.3 For the duration of the retention of title, the sale, pledging, transfer of ownership by way of security, rental or other relinquishment of the reserved goods to third parties which might impair the security status of VTEH are only permitted with the advance, written consent of VTEH, as are the alteration, processing, mixing, connection or utilization of said goods.

6.4 The party ordering may only sell the reserved goods in the ordinary course of business. He/she herewith transfers to VTEH all claims against third parties arising from the further sale or other legal transactions which may affect the reserved goods in future, along with all ancillary rights and security interest in their total. VTEH accepts the transfer.
If the reserved goods are sold after being connected to, mixed with or processed with other goods not belonging to VTEH, transfer will only be to the extent of VTEH's co-ownership share in the item or stock sold. If the party ordering has a current account relationship with his/her buyer, the transfer will relate to the balance claim at the end of an accounting period.
If the reserved goods are used by the party ordering for the fulfillment of a contract for work and services or plant delivery contract, the claim arising from such a contract will be transferred in advance to VTEH to the same extent that it has been determined above for claims from further sale.
The party ordering is entitled to collect the claims transferred to VTEH in the ordinary course of business to the extent that he/she fulfils his/her contractual obligations towards VTEH. The party ordering is not entitled to transfer or sell the claim unless he or she receives the final and complete equivalent sum of the claim.

6.5 If the value of the securities that exist for VTEH exceeds not only temporarily the claims of VTEH by a total of more than 20%, VTEH will on demand release securities of their choice of corresponding value.

6.6 The party ordering is obliged to maintain reserved goods in an orderly condition for the duration of the retention of title. Any damage to the reserved goods caused or detected by the party ordering which occurred after the risk was transferred to him/her must be reported to VTEH in writing without delay.
Any repairs required during the retention of title must be coordinated with VTEH and made immediately at their request.

6.7 If the party ordering is in default of payment or he/she has not fulfilled his/her obligations in regard to the reserved goods in accordance with Section 6 of these terms and conditions, and if VTEH has withdrawn from the contract because of this violation, VTEH can demand the return of the reserved goods with the exclusion of all rights of retention. The right of VTEH to withdraw under the conditions defined in Art. 323, BGB and demand the return of the reserved goods extends to all purchased items still covered by retention of title by VTEH at the time of withdrawal.
The costs of returning and re-utilizing the reserved goods will be carried by the party ordering. The return and re-utilization costs are set individually without proof at 10 % of the re-utilization proceeds plus any VAT that may be due. The right is reserved to provide evidence of higher or lower return and re-utilization costs. The re-utilization proceeds and any down payments made on the purchase price will be offset against the claims of VTEH after deduction of all costs and other claims by VTEH connected with the purchase contract. The party ordering will be credited with any surpluses.

7. Liability for Material Defects

7.1 Contrary to the law, the limitation period for claims by the party ordering for material defects on newly manufactured movable items purchased from VTEH by the party ordering is one year from the start of the legal limitation period. This shortened limitation period will not apply in instances where human life is lost, physical injury occurs, health is damaged or where VTEH deliberately or negligently fails to comply with its duties or fraudulently conceals a defect.

7.2 If the party ordering asserts a claim for subsequent fulfillment on newly manufactured movable items due to a material defect, VTEH has the option of either repairing the defect or replacing the defective item with a non-defective item.

7.3 The party ordering is not entitled to claim for expenses required for the purpose of subsequent fulfillment – in particular, transport, road, labour and material costs – if the costs increase because the delivered object was moved subsequently to a place other than the party ordering's place of business, unless the removal complies with its intended purpose.

7.4 The sale of used removable items by VTEH to the party ordering is not subject to material defect liability of any kind. Any liability claims the party ordering may be asserting against VTEH in instances where human life has been lost, physical injury has occurred or health has been damaged or where VTEH has deliberately or negligently failed to comply with its duties or fraudulently concealed a defect are not affected by this.

7.5 The party ordering is obliged to report any material defects to VTEH in writing without delay.

8. IX Industrial Property Rights and Copyright; Defects of Title

8.1 Unless agreed otherwise, VTEH is only obliged to make delivery in the country in which the place of delivery is located free from any industrial property rights and copyright (hereinafter referred to as property rights) of any third parties. If a third party asserts any justified claims against the party ordering for infringement of property rights caused by any deliveries made by VTEH and used in accordance with the terms of contract, VTEH is liable to the party ordering as follows within the deadline set in Item 7.1:

8.1.1 At its own expense for the deliveries in question and as desired, VTEH will either obtain a right of use and amend it in such a way that the property rights are not infringed, or replace it. If it is not possible for VTEH to do so under appropriate conditions, the party ordering is entitled to make use of his/her legal rights of rescission or reduction.

8.1.2 Damage claims against VTEH for defects of title of this kind can only be asserted as outlined in Section 9.

8.1.3 The above-mentioned obligations of VTEH only exist if the party ordering notifies VTEH in writing and without delay of the claims being asserted by a third party and does not acknowledge an infringement, and if VTEH reserves the right to all defensive measures and compromise negotiations. If the party ordering discontinues utilization of the delivery to minimize damage or for other important reasons, he/she is obliged to inform the third party that discontinuation of utilization does not constitute acknowledgement of a property right infringement.

8.2 The party ordering is not entitled to make any claims if he/she is responsible for the property right infringement.

8.3 Claims by the party ordering are also not permitted if the property right infringement was caused by particular specifications given by the party ordering, an application that was not foreseeable by VTEH or by the fact that the delivery was altered by the party ordering or utilized together with other products not supplied by VTEH.

8.4 The provisions of Section 7 apply to all other defects of title.

8.5 Further reaching claims by the party ordering against VTEH and its vicarious agents or claims other than those outlined in this section for defects of title are precluded. Used movable items are sold by VTEH to the party ordering under exclusion of all defect of title liability.

9. Liability

9.1 In the event of intent or gross negligence, VTEH, its legal representatives or its vicarious agents will be held liable for all damage to the party ordering caused by VTEH irrespective of the legal ground but in particular due to infringement of duties from the obligation and unlawful acts and for reimbursement of expenses in accordance with Art. 284 BGB.
In the event of the grossly negligent infringement of non-essential contractual obligations by simple vicarious agents, VTEH may only be held liable for typical damage that was foreseeable at the time the contract was signed.
In the event of slight negligence, VTEH, its legal representatives or vicarious agents will only be held liable if the damage was caused by an infringement of essential contractual obligations and only for typical damage that was foreseeable at the time the contract was signed. VTEH may not be held liable in all other instances of slight negligence.

9.2 VTEH is liable without restriction in all instances where VTEH is responsible for the loss of human life, causing physical injury or damaging health.

9.3 The personal liability of the legal representatives, vicarious agents and company employees of VTEH for damage caused by them through slight negligence is excluded.

9.4. In the event of fraudulent concealment of a defect, the acceptance of a warranty or procurement risk or in accordance with the product liability law, the liability of VTEH will remain unaffected irrespective of any fault.

9.5 All damage claims by the party ordering, irrespective of the legal ground but in particular those due to unlawful acts and possible claims for reimbursement of expenses in accordance with Art. 284, BGB, fall under the statute of limitations with the expiry of the limitation deadline applicable to material damage claims in accordance with Section 7. The legal limitation regulations will apply in instances where life has been lost, physical damage has occurred or health has been impaired, in the event of intent or gross negligence and with damage claims in accordance with the product liability law.

9.6 The party ordering is obliged to record in writing and without delay any damage claims for which VTEH is to be held responsible or have them recorded by a VTEH representative.

10. Place of Fulfillment, Point of Delivery, Place of Jurisdiction, Assignment and Return of Packaging

10.1 The place of fulfillment is Rödermark.

10.2 The law of the Federal Republic of Germany applies. The application of UN commercial law (United Nations Convention on Contracts for the International Sale of Goods [CISG]) is excluded.

10.3 It is agreed that Frankfurt am Main shall be the exclusive place of jurisdiction for all disputes arising from the business relationship, including those arising from bill of exchange or cheque issues.

10.4 The assignment of claims against VTEH requires the advance written consent of VTEH.

General Terms and Conditions for the Software of VIDEOR TECHNICAL E. Hartig GmbH (hereinafter referred to as VTEH) for the Provision of Standard Software (Software GTCB)

valid as of 1 January 2007

1. Scope of application

1.1 These General Terms and Conditions apply in addition to the General Terms and Conditions of VTEH to the provision of software (purchase of software) for an unlimited period of time. If software is provided for use as an integral part of a delivery of related hardware or in connection with such a delivery, these Terms and Conditions are applicable if a breach of duty or defective performance was caused by the software; the General Terms and Conditions of VTEH apply to the hardware exclusively in other respects.

1.2 Insofar as these Terms and Conditions do not contain any provisions, the General Terms and Conditions of VTEH are applicable which are available on the website www.videor-technical.com. We will be pleased to send the General Terms and Conditions of VTEH to customers upon request.

1.3 VTEH assumes no obligation to provide software services, to maintain software or to set-up and install software with these Terms and Conditions. This requires a separate agreement.

1.4 In addition, VTEH has no obligations whatsoever during any trial period granted to the customer free of charge in which he may evaluate the software before purchasing it.

2. Subject matter of the contract

2.1 The nature and the fields of application of the software are defined solely in the product description and in addition in the operating instructions, unless otherwise individually agreed.

2.2 The software is supplied exclusively in an executable form (object code) with operating instructions in the language stated in the product description and installation description; no further documentation shall be provided, unless expressly otherwise agreed. The operating instructions and installation description can also be provided electronically, in particular by the possibility of retrieving these online.

2.3 The software is supplied by providing a data carrier or, insofar as agreed or requested by the customer, by downloading it from the Internet via a link provided by VTEH.

3. Excluded fields of application for software

Attention is expressly drawn to the fact that, unless expressly agreed otherwise in an individual case, the software was not developed nor planned nor produced for use in dangerous fields of application which require fault-free operation to prevent bodily harm, death or an impairment to health or damage to the environment. The software is not suitable for use in, or in connection with, energy power stations, air traffic navigation or communications, air traffic control, any other traffic control, for the operation or monitoring of medical or other vital or life-supporting or life-maintaining equipment, weaponry or similarly dangerous fields in which faults in the product can directly or indirectly lead to death, physical impairments or impairments to the health of persons or to serious physical or biological or ecological damage (“high risk activities”).

4. Rights of use

4.1 The software (program, product description and operating instructions) is legally protected. Copyrights, patent rights, trademark rights and all other ancillary copyrights to the software and to other objects which VTEH provides or makes accessible to the customer in the course of the initiation and implementation of the contract are exclusively due to VTEH in the relationship between the parties. Insofar as third parties have rights, VTEH has acquired or licensed the required rights of use and exploitation.

Upon payment in full, VTEH grants the customer the right to use the software to the extent defined in the contract. Unless the field of software application is otherwise agreed, this right includes a simple right of use to operate the software at a workstation on a computer unit (simple licence) for an unlimited period. Thus the customer is authorised to install, load and execute the software on the maximum number of workstations agreed for the agreed duration of the right.

4.2 Every computer unit with a CPU is deemed to be a computer. Use in a network is permitted only if expressly agreed (multiple/multi-station licence), whereby the maximum number of simultaneous users shall be defined. This also applies if the software is not reproduced within the network. Use of the software through the provision thereof to third parties via remote data transmission, particularly in the form of Application Service Providing (ASP), is not permitted unless expressly agreed.

4.3 Simultaneous use of the software on more than the agreed number of workstations (excess use) is prohibited. The customer is obliged to immediately notify VTEH of any excess use. For the period of excess use, i.e. from the beginning thereof until the conclusion of an appropriate agreement or until cessation of the excess use, the customer is obliged to pay compensation for the excess use which shall be charged for the proportionate period of time at double the price of the software used according to the price list valid at the time of the breach of the contract, whereby the parties shall take a 3-year straight-line method of depreciation as the basis for calculating the compensation. This is without prejudice to the assertion of a claim for further damages in addition to the contractual penalty. The customer is free to furnish proof that less damage occurred.

4.4 The customer may transfer the right of use to the software to a third party if he completely ceases use himself, particularly if, upon transfer of the right, he deletes, destroys or hands over to the third party any and all documentation, copies etc. Insofar as a multiple/multi-station licence was granted, this may only be transferred as an entirety. Any transfer of individual workstation authorisations under a multiple/multi-station licence results in an unagreed expansion/intensification of the use of the software and is thus expressly prohibited. Clause 4.3 applies accordingly. Sub-licensing is prohibited.

4.5 In the event that the right of use is transferred to third parties, e.g. in the course of reselling, the customer shall inform VTEH of the name and address of the recipient and draw the recipient’s attention particularly to clause 3 (no high risk activities) and to the scope of the license pursuant to this clause 4.

4.6 VTEH is entitled to take appropriate and effective measures to prevent prohibited reproductions or other unauthorized use. VTEH shall draw attention to such measures in the product description prior to conclusion of contract. In particular, VTEH is authorised to make the usability of the software contingent on the use of uniquely marked hardware (e.g. dongle/hardlock), which means that, technically, the software can be used only in conjunction with this hardware component. VTEH is also authorised to make the usability of the software contingent on the prior personalized registration of the user via an online registration system operated by the software producer. The rights of the customer under Section 69 d (2) and (3) and Section 69 e UrhG [German Copyright Act] remain unaffected.

4.7 The rights granted are subject to the condition precedent that the purchase price is paid in full.

5. Customer’s duties to cooperate

5.1 The customer is responsible for ensuring that programs and data are saved on a regular basis. The customer shall take adequate precautions in the event that the program fails to work completely or partly (e.g. by data back up, fault diagnosis, regular checking of results). He is responsible for ensuring that the work environment of the program is operating. If the customer acts in breach of these obligations, VTEH shall not be liable if damage is caused as a result thereof. In particular, VTEH shall not be liable for the recovery of lost or damaged data or programs.

5.2 The customer is obliged to refrain from any and all use of the software in high risk activities (clause 3).

6. Defects in title

6.1 Claims based on defects in title are governed by clause 8 of the General Terms and Conditions of VTEH and the following clause 7 of these General Terms and Conditions for Software.

6.2 The customer shall immediately notify VTEH in writing if third parties assert proprietary rights (e.g. copyrights or patent rights) against him. The customer shall not recognise the infringement of the proprietary right asserted by third parties and shall leave any and all disputes, including any out-of-court settlements, either to VTEH or conduct such only after consulting VTEH. VTEH shall pay the necessary court and lawyers’ fees incurred by the customer as a result of defending rights. Insofar as the customer is responsible for the infringement of the proprietary right himself, claims against VTEH are excluded.

7. Defects in quality

7.1 A warranty period of 12 months is granted for the software. This does not apply to the right of recourse under Section 478 BGB [German Civil Code].

7.2 Only proven and reproducible deviations from the specification when using the software in accordance with the contract are deemed to be defects which are not defects in title. A defect is not considered to exist if it does not arise in the last version of the software supplied and the customer can be reasonably expected to use such.

7.3 The customer is obliged to immediately examine all items supplied by VTEH after delivery in accordance with provisions under commercial law (Section 377 HGB [German Commercial Code] and to immediately notify VTEH in writing of any defects. The defect and the respective data processing environment must be described as exactly as possible in such notification. Further requirements pursuant to Section 377 HGB remain unaffected.

7.4 Claims based on defects are not deemed to exist

- in the case of damage occurring as a result of faulty or negligent treatment by the customer,

- for consequences arising from alterations made by the customer or third parties,

- for software which was expanded by the customer or a third party beyond an interface provided for this purpose by VTEH or the software manufacturer, if the defect is based on this,

- if the software provided is not compatible with the data processing software used by the customer, unless expressly described as compatible in the product description or operating instructions.

7.5 If the software has a defect, VTEH shall initially be given the opportunity of rendering subsequent performance within a reasonable period. VTEH has the option of choosing whether to render subsequent performance by rectifying the defect (subsequent improvement) or by supplying a replacement.

7.6 Unless VTEH chooses any other kind of subsequent performance, subsequent performance shall be effected by rectifying a software defect as follows:

7.6.1 VTEH shall provide a new revision level (update) or a new version (upgrade) of the software as a replacement for use as appropriate if available at VTEH or if this can be obtained with a reasonable amount of effort. Otherwise the defect shall be rectified at the old revision level.

7.6.2 Until provision of the update or upgrade, VTEH shall make an interim solution available to the customer to bypass the defect if the continuance of the defect is unacceptable for the customer, for example because he is no longer able to process urgent tasks as a result of the defect.

7.6.3 If a data carrier or the documentation supplied is defective, VTEH shall replace these with a substitute which is free from defects.

7.6.4 At the option of VTEH, the defect shall be rectified on the premises of VTEH or on the customer's premises. Should VTEH choose to rectify the defect on the customer's premises, the latter shall make the hardware and software and any other necessary operating states (including the required computer time) available with suitable operating personnel. In addition, the customer shall also provide to VTEH the documents and information at its disposal required to rectify the defect.

7.7 If the subsequent performance fails, the customer may cancel the contract or reduce the remuneration – irrespective of any claims for damages based on the General Terms and Conditions. The customer only has a right of cancellation and a claim for damages instead of performance based on non-performance or performance not rendered as owed in the event of serious defects.

7.8 Where a notice of defects has been given, the customer may only retain payments to an extent which bears a reasonable relation to the defects that have arisen.

7.9 Where a notice of defects has been wrongfully given, VTEH is entitled to demand that the customer refunds the expenditure incurred to examine the defect. In particular, VTEH may demand the additional costs incurred as a result of a modification of the software, use thereof outside the prescribed environment or incorrect operation thereof. The burden of proof lies with the customer. Section 254 BGB [German Civil Code] applies mutatis mutandis.

7.10 In other respects, clause 9 of the General Terms and Conditions of VTEH applies to claims for damages. Any further claims of the customer against VTEH or its vicarious agents are excluded.

8. Secrecy, Data Protection

8.1 The subject matter of the contract, records and documents, proposals, test programs etc. of VTEH which are made accessible to the customer prior to or after conclusion of contract are considered to be intellectual property and a business or trade secret of VTEH and must be kept secret in accordance with the following provisions shown in this clause 8.

8.2 The parties to the contract undertake to treat as confidential all objects (e.g. software, documents and records, information) which they receive from the other party respectively or gain knowledge of prior to or during the implementation of the contract and which are legally protected or contain business or trade secrets or are marked as confidential, also after the end of the contract, unless they become publicly known without any infringement of this duty to maintain secrecy. The parties to the contract shall store and safeguard these objects in such a manner that it is impossible for third parties to gain access thereto.

8.3 The customer shall only make the subject matter of the contract accessible to employees and other third parties which require access to carry out the tasks assigned to them. He shall instruct such persons of the necessity to keep the objects secret.

8.4 VTEH shall store the data of the customer required to process the transactions in compliance with data protection laws.

1. Your Contacts

Our Sales Team can be contacted under the following extensions:
Fax +49 6074 / 888 - 166 ·Telephone +49 6074 / 888 -

Anne Drischel-Benz (Ex)	-131	Louise McLean (UK)	-285
Samuel Glenn Carle (UK)	-284	Julia Reynolds (Ex)	-163
Simone Enzmann	-164	Nadège Rigual (Fr)	-253
Thomas Geiger	-161	Hans-Peter Roth	-191
Ulrike Kämmler-Büttner (Ex)	-262	Sabine Schwinn (Ex)	-178
Dirk Leinweber	-281	Thorsten Wallerius	-153

2. Pricelists

- You can download price lists in Excel and PDF format in seconds from our website. For net or gross prices. The price lists will be generated online for you. Fully up-to-date. Nothing could be easier.
- You no longer have to calculate your prices yourself using the quotation sheet. You see your personal purchase price directly next to the product. If you want to pass on list prices to your customers simply download the gross price list.
- For new costumers: On our website got to > Contact > Become a partner. You can download the Partner Registration Form here. Print it out, complete it including a signature and send it back to us. Please telephone our Authorisation Team on +49 6074/880-350 if you have any questions.

3. Return procedure

Step 1
Only in case of transport damages: Very important!

- Report the damage to the delivery company immediately. If you do not do this your insurance coverage will become invalid.
- If the delivery company does not want to check the damage you can return the damaged goods to Videor Technical. (cf. step 2)

Step 2

- Please contact us for an RMA No. for your return: Tel. No. 0870 7749944
- Please note that returns without an RMA No. cannot be processed and will be sent back to you.
- The issued RMA No. applies for a period of 14 days.

Step 3

- You can find RMA form on our website at www.videortechnical.com/rma/en
- Enter the RMA No. in the respective field on the RMA form and fill in the form completely.
- Please state the number for the return reason on the form and give a detailed description in case of repairs, modifications or transport damages.

Step 4

- Include a completed RMA form with your return consignment, together with a copy of the delivery note or invoice.
- Write the RMA No. on the outside of the package. Please do not write the RMA No. on the original product packaging.
- The goods must be properly packaged.
- Send the package carriage paid to the address that you can find on the back of this catalogue.

Z90007

eneo products are available through Videor Technical
and specialised trade channels only

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